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Agriculture Statistics Yearbook 1990

Alberta
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PREFACE

The Agriculture Statistics Yearbook for Alberta provides 1990 statistics where available, otherwise the most current statistics are provided. This publication serves as a reference to those interested in agriculture in Alberta. Although several graphs and short tables provide more than 1989 and 1990 comparisons, information prior to 1989 may be obtained from the Statistics Branch. In addition, we remind users that the data in this publication is subject to revision.

The Statistics Branch publishes and revises much of the data in this publication throughout the year. This data is released as it becomes available on fact sheets, a format which may be more appropriate for those individuals wishing only selected pages of this publication. If this is the type of information that you require, please contact us at any time during the year.

Data was derived from a variety of sources with major contributions made by the Agriculture/Natural Resources Division, Statistics Canada in cooperation with Alberta Agriculture. We also gratefully acknowledge the cooperation of Agriculture Canada and contributions of other federal and provincial departments mentioned within Sources and Methods located at the back of this publication.

Special appreciation is extended to all the agricultural producers and processors who responded to surveys or supplied other information to either Statistics Canada or Alberta Agriculture.

Evaluation of this publication and suggestions for improvements will be greatly appreciated and should be forwarded to Statistics Branch, Alberta Agriculture, Edmonton.

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1990 IN REVIEW

FARM CASH RECEIPTS

Realized Net Income for Alberta farmers in 1990 is estimated to have been $403 million which represents a 45 per cent decline over the previous year's level of $733 million. Realized Net Income, which is income available after expenses to pay down principal on debt and for personal consumption, investment, savings and taxes, is estimated to be below 1989 levels because of lower crop market receipts and program payments. Payments under the 1990 Farm Income Assistance Program and other programs make up approximately eight per cent of Total Farm Cash Receipts in 1990 while transfers under the Alberta Farm Fertilizer Price Protection Plan, the Crow Benefit Offset and various other expense reduction programs reduced expenses by about two per cent.

Total Farm Cash Receipts for 1990, estimated at $4,221 million, were seven per cent lower than 1989. Decreased oilseed and grain receipts offset greater returns from the livestock sector contributing to the overall decrease in Farm Cash Receipts. The estimate includes almost $100 million paid out under the 1990 Farm Income Assistance Program and approximately $24 million in disaster relief.

Total Crop Receipts in 1990 were approximately $1,869 million or about 15 per cent below 1989 levels.

Total Livestock Receipts amounted to $2,352 million in 1990 or up one per cent from 1989 levels. The market actually returned over seven per cent more in 1990 than in 1989, offsetting this increase were lower deficiency and supplementary payments contributing to an overall slight increase in livestock receipts. Total Operating Expenses for 1990 remained unchanged from the 1989 level of $3,149 million . Increases in fuel expenses, interest costs and wages were offset by decreases in livestock purchases and feed expenses.

Wheat

Receipts from the sale of wheat in 1990 were $716 million or slightly above the 1989 level. Calendar year 1990 deliveries of wheat were 5.1 million metric tonnes or 21 per cent above the 1989 level of 4.2 million tonnes. Despite the sizeable increase in deliveries, price decreases had an offsetting impact and overall contributed to the slight increase in receipts. The Canadian Wheat Board initial payment for #1 CW Red Spring Wheat was decreased to $135 per tonne basis Thunder Bay for the 1990-91 crop year from the previous year's level of $155 per tonne.

Barley

Alberta barley receipts decreased in 1990 to $271 million from the 1989 level of $375 million. Deliveries of barley in 1990 were approximately 2.7 million tonnes, compared to the 3.5 million tonnes a year earlier, contributing to the decrease in receipts. The initial price of $85 and an adjustment of $15 per tonne basis in store Thunder Bay for the 1989-90 crop year was decreased to $90 per tonne for the 1990-91 crop year. The final payment for #1 CW Barley in 1989-90 was $12.38 per tonne.

Canola

Alberta canola receipts were estimated at $340 million in 1990, a decrease of 19 per cent from the 1989 level. Production in 1990 was three per cent less than the previous year. Average producer prices for 1990

were estimated to be about $260.83 per tonne, down $2.66 per tonne from 1989.

Alberta exports of canola seed to Japan were 734,385 tonnes in 1990 relative to total Canadian exports of 1,959,676 tonnes. Canola prices dropped the last half of 1990 to the $230 to $250 per tonne range, less than the $240 to $265 in evidence one year earlier.

Crop Insurance, Western Grain Stabilization, Etc.

Alberta farmers received $139 million in payouts under the Hail and Crop Insurance Program in 1990. This was over 28 per cent below the 1989 payment of $194 million. In 1990, payouts included approximately $27 million paid out under the Forage Insurance Program.

In 1990, the Farm Income Assistance Program made payments totalling $98 million. In addition, the Northwestern and West Central Alberta Disaster Assistance Programs paid out $24 million to farmers who suffered losses attributable to flooding.

In 1990, total direct crop program payments to Alberta producers were estimated to be $266 million or about 14 per cent of total crop receipts.

Cattle and Calves

Provincial receipts from the sale of cattle and calves in 1990 amounted to $1,558 million which represented more than a six per cent increase over the 1989 level. Total inspected cattle slaughter decreased nationally almost eight per cent but increased provincially by three per cent to 1,329,450 head. Interprovincial live cattle exports from Alberta increased by over eight per cent to 458,510 head in 1990. Since 1986 these exports have consisted largely of slaughter cattle exports to the U.S.A. The Calgary A1,2 slaughter steer price averaged $83.54/cwt in 1990, which was almost four per cent above the previous year largely due to increased competition for slaughter cattle in the province. The 800-900 lb feeder steer class averaged $91.56/cwt on the Edmonton market in 1990 while the previous year they averaged $89.77/cwt.

Increased slaughter cattle prices, strong U.S. demand, adequate feed supplies and the influence of the provincial Crow Benefit Offset Program were largely responsible for the continued strong demand for feeder cattle in 1990.

Tripartite Red Meat Stabilization made payments under both the slaughter and feeder cattle programs in 1990. The slaughter cattle model has provided payments for the year totalling approximately $15 million. The feeder cattle model, with a much smaller participation rate, provided a payment of just under $1 million in 1990.

Hogs

Total receipts from the sale of hogs were 20 per cent ahead of 1989 levels at an estimated $299 million in 1990. Alberta producers delivered 2.1 million hogs to Canadian slaughter plants in 1990 which represents nine per cent increase over 1989 numbers. The large increase that Index 100 hog prices experienced in 1990 in addition to the increased hog delivery numbers resulted in almost a 20 per cent increase in total hog receipts. Alberta hog exports to the U.S.A. decreased in 1990 by almost 50 per cent, this counteracted the ten fold increase seen in 1988, which was followed by a 11 per cent increase in 1989. The dramatic increase in export numbers seen in 1988 and 1989 came about as a result of strong demand from the U.S.A. and labor related problems within the domestic pork processing industry. The Tripartite Red Meat

Stabilization Program made payments to Alberta hog producers in 1990 totalling over $17 million.

Dairy

Receipts from the sale of milk and cream increased marginally in 1990 to $251 million from $247 million in 1989. The increase in dairy receipts is attributable to price increases for fluid and industrial milk. Dairy product prices on the whole were also higher in 1990 although volumes were largely unchanged.

In the 1990/91 dairy year, the average price paid to producers for fluid milk increased to $54.01/hl from 52.82/hl in 1989/90.

OPERATING EXPENSES

Total Operating Expenses for 1990 remained unchanged from the 1989 level of $3,149 million. Decreases in feeder cattle purchases, feed and fertilizer expenses offset increases in fuel expenses, interest costs and farm labor costs. The largest increase in expenses was in the fuel and lubricant expense category. At an estimated $250 million, this category was almost ten per cent higher than the 1989 level.

Interest Payments

Interest expenses in 1990 were estimated to be $468 million or up four per cent from the 1989 level of $448 million. Producer participation in government programs to reduce interest expenses helped keep this category from rising more dramatically in 1990. Chartered bank prime interest rates averaged approximately 14 per cent in 1990, compared to the 1989 level of 13.5 per cent. Farm debt outstanding at the end of 1990 is estimated to have increased to approximately $6.2 billion compared to $5.8 billion at the end of 1989. The sharp increase in debt is primarily attributable to the reinstatement of the Federal Cash Flow Enhancement Program in October 1990.

Machinery Expenses

Machinery expenses, which includes repairs and fuel, is once again projected to be the largest single expense category. In 1990, the total for this category was $592 million, six per cent higher than the 1989 estimate of $557 million.

Alberta producers indirectly benefitted from the Alberta Farm Fuel Distribution Allowance which paid out over $88 million to fuel distributors in 1990 in order to keep the price of marked fuels at a lower level for farm production.

Machinery repair expenses increased to $342 million in 1990 compared to $329 million the previous year. An increase in the fuel expense category in 1990 to $250 million from $228 million in 1989, was caused primarily by increases in the price offsetting lower consumption.

Fertilizer Expenses

The Agricultural Input Monitoring System (AIMS) reported that 1990 prices for Anhydrous Ammonia, including applicator, averaged approximately $353.76 per tonne compared to an average 1989 price of $374.27, a 5.5 per cent decline in price. The Alberta Farm Fertilizer Price Protection Plan reduced fertilizer expenses for Alberta producers by approximately $20 million in 1990 compared to $18 million in 1989.

Feed Expenses

Feed expenses as reported in the farm expense series pertain only to feed purchased through commercial channels. Inter-farm sales of feed are not included in the provincial feed expense estimate because the expense and receipt incurred by each party are viewed as offsetting transactions. Grains and forages grown on farms for feed purposes are also not included because the cost of inputs used in their production is captured under crop expenses. Feed expenses in 1990 decreased by almost seven per cent to $272 million due to lower prices. AIMS reports that the average No.1 feed barley price decreased by almost 12 per cent in 1990 from previous year's level. Prices for feed supplements decreased by approximately 3.5 per cent in 1990 over 1989 levels.

The lower price for feed barley and benefits received under the Crow Benefit Offset Program (CBOP) resulted in continued low levels for total feed expenses in 1990. The CBOP reduced feed expenses by an estimated $39 million in 1990 compared to a figure of $48 million in 1989.

Other Livestock Expenses

In 1990, this category decreased to $283 million from $314 million the previous year. This represents nearly a ten per cent decrease from the 1989 level and is almost entirely due to decreases in the number of feeder cattle entering the province. In 1990, 208,570 head of feeder cattle were brought into the province from Saskatchewan, more than seven per cent below the previous year's level of 225,370 head.

ASSISTANCE PROGRAMS

The Alberta Government continues to provide agricultural assistance programs where need is shown. The scope of the programs offered in 1990 was broad and provided for financial assistance for agricultural research, debt refinancing, new loans, disaster assistance, farm operating expense reduction and expansion of the food and agricultural processing sector. Research funding was also provided under the Farming for the Future Research Program.

There was continued emphasis on expense reduction programs in 1990 through such programs as the Farm Fertilizer Price Protection Plan which provided $20 million in payments, the Alberta Farm Fuel Distribution Allowance which reduced fuel expenses by $88 million and the Alberta Farm Credit Stability program which provided shielding from interest rate increases and amounted to over $138 million in benefits in 1990.

In total, provincial programs provided direct payments of over $320 million to Alberta producers in 1990.

Table 1
PRODUCTION AND GROSS FARM VALUE OF AGRICULTURAL PRODUCTS

	Production		Value Per Unit (1)		Total Value	
	1989r	1990p	1989r	1990p	1989r	1990p
	- tonnes -		- dollars -		- dollars -	
Field Crops:						
Wheat	6 445 000	6 899 000	126.77	106.93	817,033,000	737,710,000
Oats for Grain	1 619 000	1 450 000	84.29	68.08	136,466,000	98,716,000
Barley for Grain	5 704 000	6 227 000	96.45	82.21	550,151,000	511,922,000
Rye	185 500	180 700	81.89	67.71	15,191,000	12,235,000
Mixed Grains	184 000	204 000	90.60	70.84	16,670,000	14,451,000
Flaxseed	40 600	81 300	338.96	207.86	13,762,000	16,899,000
Canola/Rapeseed	1 338 000	1 293 000	267.20	229.91	357,514,000	297,274,000
Mustard Seed(2)	32 200	38 900	286.60	220.46	9,229,000	8,576,000
Potatoes	285 800	277 600	152.12	195.99	43,476,000	54,407,000
Sugar Beets(3)	499 000	590 200	45.20	40.50	22,555,000	23,903,000
Tame Hay	9 800 000	10 500 000	62.58	60.67	613,284,000	637,035,000
Other Crops					38,287,000	48,495,000
Total Field Crops					**2,633,618,000**	**2,461,623,000**
Livestock and Livestock Products:						
Cattle and Calves					1,335,845,000	1,345,090,000
Hogs					250,410,000	301,165,000
Sheep and Lambs					8,050,000	8,090,000
Total Livestock					**1,594,305,000**	**1,654,345,000**
Dairy					250,006,000	252,120,000
Poultry and Eggs					143,186,000	148,181,000
Honey					8,646,000	13,767,000
Other Livestock and Products					25,322,000	24,518,000
Total Livestock and Products					**2,021,465,000**	**2,092,931,000**

1 Source: Alberta Agriculture average farm value estimates.
2 Source: Alberta Agriculture Specialty Crop Survey.
3 Source: Alberta Sugar Beet Growers Marketing Board.
p Preliminary
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Table 2
CASH RECEIPTS FROM THE SALE OF FARM PRODUCTS

	1989r		1990p	
	$ 000	% of Total	$ 000	% of Total
Wheat	693,000	15.3	716,000	17.0
Oats	92,000	2.0	37,000	0.9
Barley	375,000	8.3	271,000	6.4
Western Grain Stabilization	56,000	1.2	0	0
Crop Insurance Payments, Etc.	194,000	4.3	139,000	3.3
C.W.B. Net Cash Advance & Deferments	31,000	0.7	21,000	0.5
Rye	6,000	0.1	5,000	0.1
Flaxseed	7,000	0.2	8,000	0.2
Canola/Rapeseed	422,000	9.3	340,000	8.1
Sugar Beets	23,000	0.5	27,000	0.6
Potatoes	42,000	0.9	36,000	0.9
Vegetables	34,000	0.8	36,000	0.9
Floriculture and Nursery	33,000	0.7	35,000	0.8
Other Crops	68,000	1.5	71,000	1.6
Deficiency & Supplementary Payments	130,000	2.9	127,000	3.0
Total Crops	**2,206,000**	**48.7**	**1,869,000**	**44.3**
Cattle and Calves	1,466,000	32.3	1,558,000	36.9
Hogs	250,000	5.5	299,000	7.1
Sheep and Lambs	7,000	0.2	7,000	0.2
Milk and Cream	247,000	5.4	251,000	5.9
Poultry and Eggs	140,000	3.1	147,000	3.5
Other Livestock	34,000	0.8	36,000	0.9
Deficiency & Supplementary Payments	181,000	4.0	54,000	1.2
Total Livestock and Products	**2,325,000**	**51.3**	**2,352,000**	**55.7**
Total Cash Receipts	**4,531,000**	**100.0**	**4,221,000**	**100.0**

Note: Interim and final payments received through the Canadian Wheat Board (wheat and barley) are included in the calendar year in which payments were received by farmers.

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SOURCE OF FARM INCOME

(PER CENT)

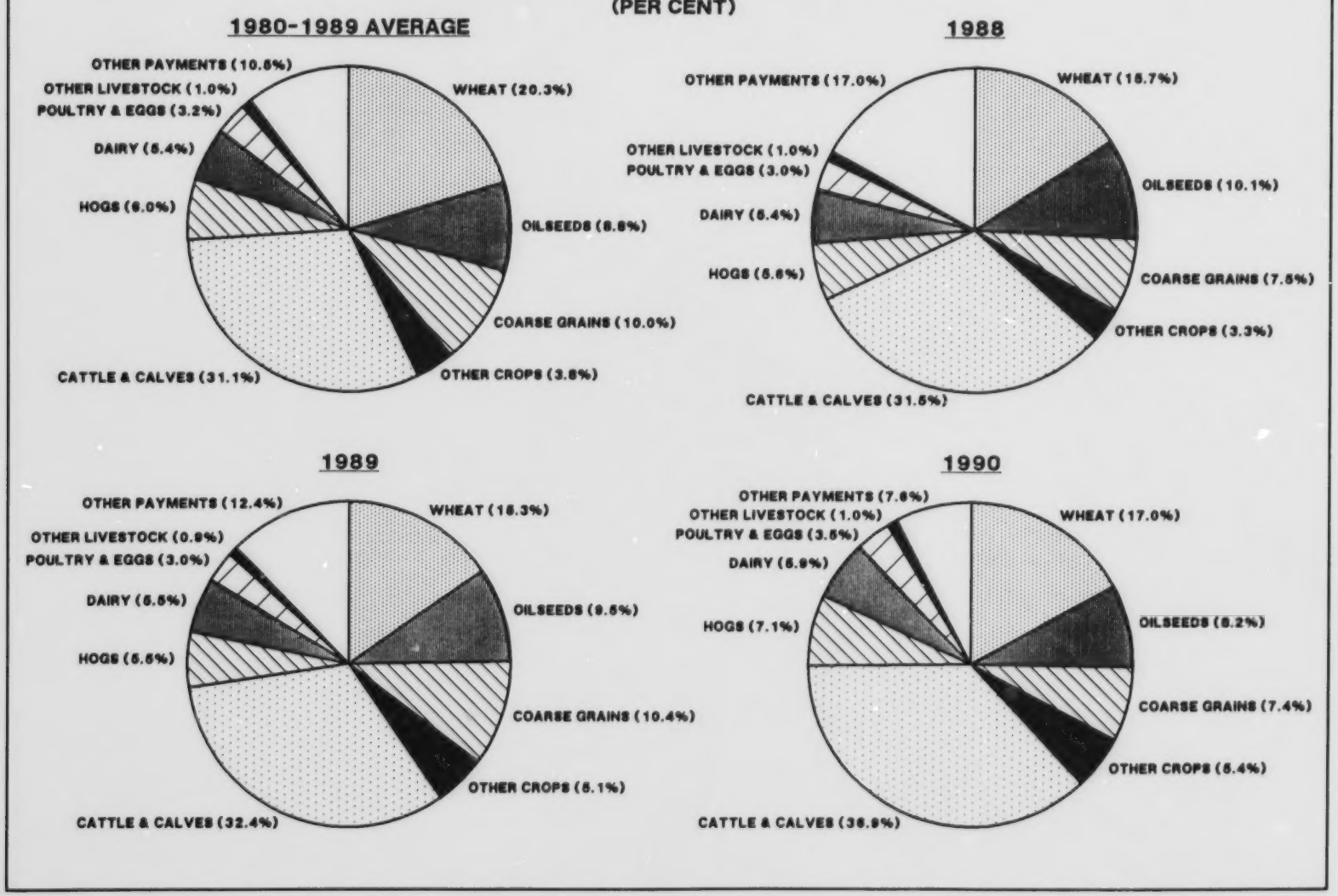

Table 3
CASH RECEIPTS FROM THE SALE OF FARM PRODUCTS BY MAJOR PRODUCT OR PRODUCT GROUP

	1981	1982	1983	1984	1985	1986	1987r	1988r	1989r	1990
WHEAT ($ millions)	**1,151**	**958**	**1,000**	**1,003**	**699**	**517**	**561**	**694**	**693**	**716**
% of crop receipts	55.3	48.8	49.0	47.0	35.6	28.5	26.9	30.4	31.4	38.3
% of total receipts	29.9	25.1	26.7	25.2	18.3	13.7	14.0	15.7	15.3	17.0
OTHER CEREALS ($ millions)	**519**	**505**	**464**	**342**	**293**	**340**	**256**	**329**	**473**	**313**
% of crop receipts	24.9	25.7	22.7	16.0	14.9	18.7	12.3	14.4	21.4	16.7
% of total receipts	13.5	13.2	12.4	8.6	7.7	9.0	6.4	7.5	10.4	7.4
OILSEEDS ($ millions)	**295**	**260**	**347**	**407**	**350**	**274**	**321**	**446**	**429**	**348**
% of crop receipts	14.2	13.3	17.0	19.1	17.8	15.1	15.4	19.5	19.4	18.6
% of total receipts	7.7	6.8	9.3	10.2	9.1	7.3	8.0	10.1	9.5	8.2
OTHER INCOME/CROPS ($ millions)	**85**	**147**	**121**	**127**	**201**	**187**	**164**	**145**	**231**	**226**
% of crop receipts	4.1	7.5	5.9	5.9	10.2	10.3	7.9	6.4	10.5	12.1
% of total receipts	2.2	3.9	3.2	3.2	5.2	4.9	4.1	3.3	5.1	5.4
CROP PROGRAM PAYMENTS ($ millions)	**31**	**92**	**110**	**257**	**423**	**496**	**784**	**668**	**380**	**266**
% of crop receipts	1.5	4.7	5.4	12.0	21.5	27.3	37.6	29.3	17.2	14.2
% of total receipts	0.8	2.4	2.9	6.5	11.0	13.2	19.6	15.1	8.4	6.3
TOTAL CROP RECEIPTS ($ millions)	**2,081**	**1,962**	**2,042**	**2,136**	**1,966**	**1,814**	**2,086**	**2,282**	**2,206**	**1,869**
% of total receipts	54.1	51.5	54.4	53.6	51.3	48.3	52.1	51.7	48.7	44.3
CATTLE ($ millions)	**1,180**	**1,106**	**1,125**	**1,163**	**1,181**	**1,104**	**1,211**	**1,389**	**1,466**	**1,558**
% of livestock receipts	66.7	59.8	65.8	62.9	63.4	56.9	63.4	65.2	63.1	66.2
% of total receipts	30.6	29.0	30.0	29.2	30.8	29.4	30.2	31.5	32.4	36.9
HOGS ($ millions)	**190**	**223**	**202**	**255**	**248**	**279**	**285**	**249**	**250**	**299**
% of livestock receipts	10.7	12.1	11.8	13.8	13.3	14.3	14.9	11.7	10.8	12.7
% of total receipts	4.9	5.8	5.4	6.4	6.5	7.4	7.1	5.6	5.5	7.1
DAIRY, POULTRY, EGGS ($ millions)	**295**	**318**	**316**	**355**	**345**	**351**	**355**	**370**	**387**	**398**
% of livestock receipts	16.7	17.2	18.5	19.2	18.5	18.1	18.6	17.4	16.6	16.9
% of total receipts	7.7	8.3	8.4	8.9	9.0	9.3	8.9	8.4	8.5	9.4
OTHER LIVESTOCK ($ millions)	**36**	**34**	**35**	**35**	**28**	**41**	**48**	**44**	**41**	**43**
% of livestock receipts	2.0	1.8	2.0	1.9	1.5	2.1	2.5	2.1	1.8	1.8
% of total receipts	0.9	0.9	0.9	0.9	0.7	1.0	1.2	1.0	0.9	1.0
LIVESTOCK PROGRAM PAYMENTS ($ mil.)	**68**	**169**	**31**	**40**	**62**	**164**	**21**	**80**	**181**	**54**
% of livestock receipts	3.8	9.1	1.8	2.2	3.3	8.4	1.1	3.8	7.8	2.3
% of total receipts	1.8	4.4	0.8	1.0	1.6	4.3	0.5	1.8	4.0	1.2
TOTAL LIVESTOCK RECEIPTS ($ mil.)	**1,769**	**1,850**	**1,709**	**1,848**	**1,864**	**1,939**	**1,910**	**2,132**	**2,325**	**2,352**
% of total receipts	45.9	48.5	45.6	46.4	48.7	51.7	47.9	48.3	51.3	55.7
TOTAL RECEIPTS ($ millions)	**3,850**	**3,812**	**3,751**	**3,984**	**3,830**	**3,753**	**4,006**	**4,414**	**4,531**	**4,221**

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Table 4
NET INCOME OF FARM OPERATORS FROM FARMING OPERATIONS

	1989r	1990p	% Change
	- thousand dollars -		
1. Total Cash Receipts	4,531,000	4,221,000	- 6.8
2. Income in Kind	25,000	26,000	+ 4.0
3. Realized Gross Income (1+2)	4,556,000	4,247,000	- 6.8
4. Operating and Depreciation Charges	3,823,000	3,844,000	+ 0.5
5. Realized Net Income (3-4)	733,000	403,000	- 45.0
6. Value of Inventory Changes	69,000	199,000	+ 188.4
7. Total Gross Income (3+6)	4,625,000	4,446,000	- 3.9
8. Total Net Income (7-4)	802,000	602,000	- 24.9

Table 5
INCOME IN KIND

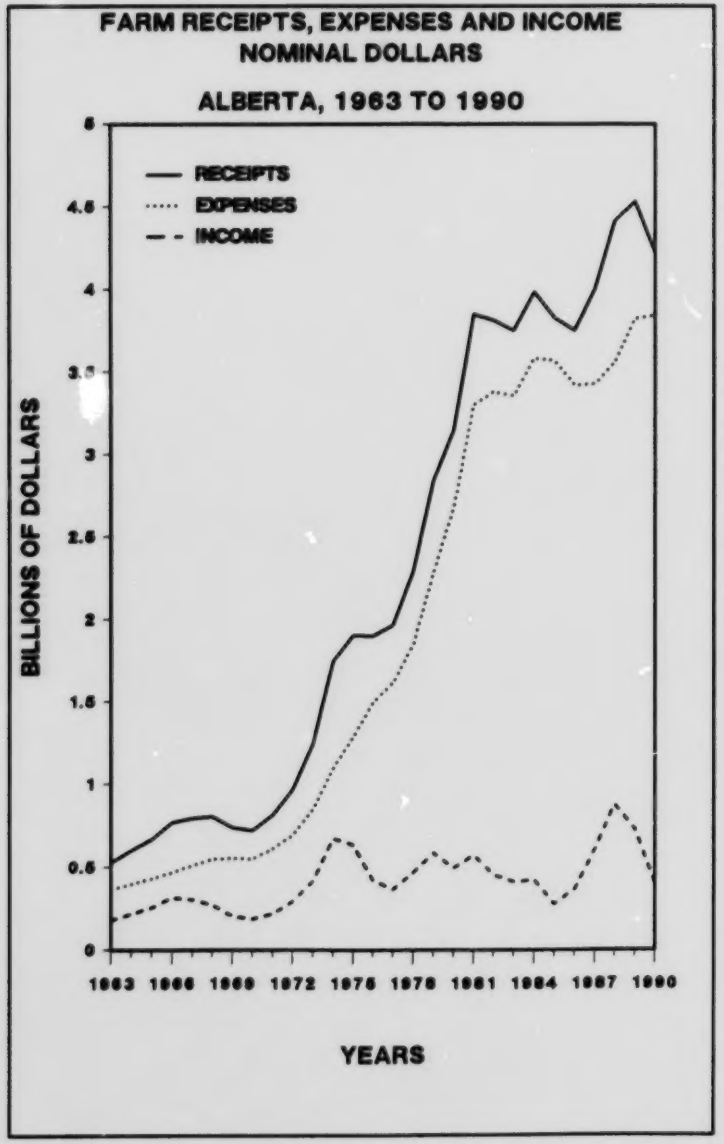
	1989r	1990p	% Change
	- thousand dollars -		
Dairy Products	595	451	- 24.2
Poultry and Eggs	2,283	2,277	- 0.3
Meat	15,880	16,363	+ 3.0
Fruit and Vegetables	57	59	+ 3.5
Honey and Maple Products	1	2	+ 100.0
Forest Products	6,524	6,524	0.0
Wool	16	13	- 18.8
Total	**25,356**	**25,689**	+ 1.3

p Preliminary
r Revised

Table 6
NET INCOME OF FARM OPERATORS FROM FARMING OPERATIONS

	1 Total Cash Receipts	2 Income In Kind	3 (1+2) Realized Gross Income	4 Op. & Deprec. Charges	5 (3-4) Realized Net Income	6 Value of Inventory Changes	7 (3+6) Total Gross Income	8 (7-4) Total Net Income
				- thousand dollars -				
1962	575,000	19,000	594,000	345,000	249,000	21,000	615,000	270,000
1963	529,000	19,000	548,000	369,000	179,000	103,000	651,000	282,000
1964	602,000	18,000	620,000	400,000	220,000	8,000	628,000	228,000
1965	669,000	19,000	688,000	430,000	258,000	28,000	716,000	286,000
1966	769,000	18,000	787,000	470,000	317,000	36,000	823,000	353,000
1967	796,000	17,000	813,000	510,000	303,000	-42,000	771,000	261,000
1968	805,000	17,000	822,000	549,000	273,000	62,000	884,000	335,000
1969	740,000	18,000	758,000	552,000	206,000	45,000	803,000	251,000
1970	720,000	17,000	737,000	550,000	187,000	32,000	769,000	219,000
1971	814,000	16,000	830,000	611,000	219,000	17,000	847,000	236,000
1972	965,000	17,000	982,000	690,000	292,000	26,000	1,008,000	318,000
1973	1,244,000	21,000	1,265,000	849,000	416,000	204,000	1,469,000	620,000
1974	1,748,000	18,000	1,766,000	1,095,000	671,000	-12,000	1,754,000	659,000
1975	1,902,000	17,000	1,919,000	1,287,000	632,000	99,000	2,018,000	731,000
1976	1,897,000	21,000	1,918,000	1,495,000	423,000	82,000	2,000,000	505,000
1977	1,963,000	20,000	1,983,000	1,615,000	368,000	-74,000	1,909,000	294,000
1978	2,289,000	24,000	2,313,000	1,846,000	467,000	100,000	2,413,000	567,000
1979	2,843,000	28,000	2,871,000	2,283,000	588,000	74,000	2,945,000	662,000
1980	3,144,000	30,000	3,174,000	2,677,000	497,000	152,000	3,326,000	649,000
1981	3,850,000	23,000	3,873,000	3,301,000	572,000	68,000	3,941,000	640,000
1982	3,812,000	21,000	3,833,000	3,380,000	453,000	-85,000	3,748,000	368,000
1983	3,751,000	20,000	3,771,000	3,358,000	413,000	-193,000	3,578,000	220,000
1984	3,984,000	20,000	4,004,000	3,581,000	423,000	-320,000	3,684,000	103,000
1985	3,830,000	19,000	3,849,000	3,571,000	278,000	-25,000	3,824,000	253,000
1986	3,753,000	25,000	3,778,000	3,410,000	368,000	499,000	4,277,000	867,000
1987r	4,006,000	26,000	4,032,000	3,429,000	603,000	-28,000	4,004,000	573,000
1988r	4,414,000	25,000	4,439,000	3,559,000	880,000	41,000	4,480,000	921,000
1989r	4,531,000	25,000	4,556,000	3,823,000	733,000	69,000	4,625,000	802,000
1990p	4,221,000	26,000	4,247,000	3,844,000	403,000	199,000	4,446,000	602,000

p Preliminary
r Revised


FARM RECEIPTS, EXPENSES AND INCOME
NOMINAL DOLLARS
ALBERTA, 1963 TO 1990
RECEIPTS
EXPENSES
INCOME
BILLIONS OF DOLLARS
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
1963 1966 1969 1972 1975 1978 1981 1984 1987 1990
YEARS

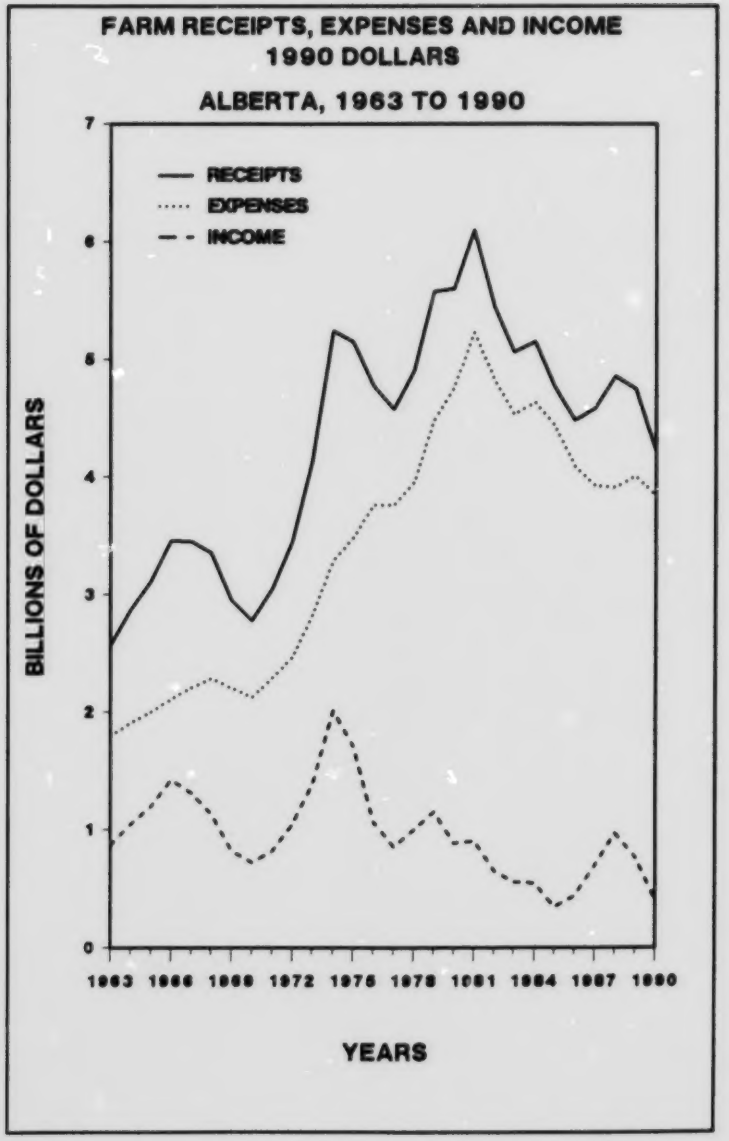

FARM RECEIPTS, EXPENSES AND INCOME
1990 DOLLARS
ALBERTA, 1963 TO 1990
RECEIPTS
EXPENSES
INCOME
BILLIONS OF DOLLARS
0
1
2
3
4
5
6
7
1963 1966 1969 1972 1975 1978 1981 1984 1987 1990
YEARS

Table 7
FARM OPERATING EXPENSES AND DEPRECIATION CHARGES

	1989r	1990p	% Change
	- thousand dollars -		
Taxes	76,000	81,000	+ 6.6
Gross Farm Rent	179,000	176,000	- 1.7
Wages	289,000	303,000	+ 4.8
Interest	448,000	468,000	+ 4.5
Fuel and Lubricants (1)	228,000	250,000	+ 9.6
Machinery Repairs and Expenses	329,000	342,000	+ 4.0
Fertilizer and Lime (1)	270,000	255,000	- 5.6
Other Crop Expenses	332,000	324,000	- 2.4
Feed	291,000	272,000	- 6.5
Other Livestock Expenses	314,000	283,000	- 9.9
Repairs to Buildings and Fences	93,000	95,000	+ 2.2
Electricity and Telephone	77,000	78,000	+ 1.3
Miscellaneous	224,000	222,000	- 0.9
Total Operating Expenses	3,150,000	3,149,000	0.0
Depreciation of Buildings and Machinery	673,000	695,000	+ 3.3
Total Expenses and Depreciation	3,823,000	3,844,000	+ 0.5

1 Provincial and Federal payments and subsidies have been deducted from commodity expenses.
p Preliminary; r Revised

Table 8
AVERAGE FARM INPUT PRICES

	January-March	April-June	July-September	October-December	1990 Average
Lumber 2 x 6 spruce, M	366.89	370.42	374.57	381.88	373.44
Sheathing, ply., fir, 3/8", 4 x 8 sht	12.83	12.61	12.67	11.76	12.47
Cement, 40 kg	8.53	8.57	8.68	8.75	8.63
Barn paint, oil base, 20 litres	24.40	23.98	23.24	23.30	23.73
Pipe, plastic, 3/4", 75 psi., 100' coil	25.22	24.12	23.98	23.95	24.32
Rods, re-enforcing 1/2", 6 metres	4.00	3.94	3.92	3.84	3.93
Barbed wire, 12 gauge, double strand	43.95	43.71	43.27	42.75	43.42
Truck tires, 1st line, P235-75R-15, ea.	116.10	115.44	115.78	115.73	115.76
Battery, 12 volt, 525 cranking amps, 24 series	78.77	79.07	79.34	79.73	79.23
V-belt, 1/2" x 70", ea.	9.36	9.59	9.36	8.91	9.30

Table 8 (cont'd)
AVERAGE FARM INPUT PRICES

	January-March	April-June	July-September	October-December	1990 Average
Antifreeze, 4 litres	11.71	11.46	10.68	8.47	10.58
Mechanical repairs, per hour	36.67	37.29	37.77	38.34	37.52
Baler twine - sisal 9000'	25.34	26.07	27.61	27.99	26.76
Farm labour, per month, without board	1,207.15	1,225.47	1,260.10	1,260.41	1,238.28
Tractor, 100 hp/up	62,228.02	62,810.19	62,599.53	62,033.97	62,417.93
Tractor, 170 hp/up	109,230.02	108,861.13	108,207.34	105,801.77	108,025.07
Combine, self-propelled	130,606.82	130,920.79	130,275.00	129,628.50	130,357.78
Chisel plow, 23-27'	16,757.87	15,513.38	15,538.42	15,728.14	15,884.45
Round baler, pull type	21,617.37	21,940.55	21,842.18	21,949.93	21,837.51
Double disc, heavy duty, 19'-21'	18,256.53	18,178.82	18,332.34	18,487.46	18,313.79
Truck, 1/2 ton, Ford/Chev	15,256.46	15,269.40	15,462.83	15,827.52	15,454.05
Calf starter supplement, (20-24%), 25 kg	8.73	8.67	8.53	8.55	8.62
Dairy supplement, (32%), 25 kg	9.54	9.58	9.65	9.59	9.59
Hog supplement, (40%), 25 kg	12.35	12.02	11.74	11.55	11.92
Broiler grower, (18-20%), 25 kg	8.86	8.63	8.58	8.63	8.67
Cattle mineral, 25 kg	17.33	17.57	17.57	17.98	17.61
Feed barley, No. 1, (farm gate), bu	2.13	2.15	1.87	1.61	1.94
Feed wheat, No. 1, (farm gate), bu	3.35	3.42	3.03	2.78	3.15
Hay, good quality, baled, ton	63.61	63.02	60.21	55.84	60.67
Fertilizer, 46-0-0, tonne, bulk	225.92	249.22	251.69	233.83	240.17
Fertilizer, 11-51-0, tonne, bulk	349.94	356.69	356.45	339.57	350.66
Fertilizer, 82-0-0, tonne, bulk (appl. inc.)	344.75	360.68	363.31	346.28	353.76
2-4D low volatile, 20 litres	74.05	74.69	75.42	73.02	74.30
Avadex BW, liquid, 5 gal	178.75	182.04	182.34	182.53	181.42
Trifluralin, Treflan, 17 litre case	170.52	171.70	172.60	173.40	172.05
Penicillin, injectable, 100 cc.	5.42	5.35	5.38	5.34	5.37
Vitamin A D E, injectable, 100 cc.	5.12	5.15	5.13	5.29	5.17
Seed, wheat, 100 kg, bulk	27.03	26.66	26.98	26.40	26.77
Seed, barley, 100 kg, bulk	24.23	23.66	23.75	23.31	23.74
Seed, canola, treated, 100 kg, bagged	241.00	274.16	281.07	285.71	270.49
Purple gasoline, 100 litres(1)	31.25	35.18	35.86	44.43	36.68
Diesel fuel, 100 litres(1)	19.91	23.13	23.26	32.25	24.64
Propane, bulk, 100 litres	20.73	19.86	20.39	24.81	21.45
Natural gas, GJ	2.74	2.69	2.68	2.66	2.69
Diesel engine oil, 5 litres	9.29	9.31	9.59	9.92	9.53

1 Minus provincial rebate only.

Table 9
FARM CAPITAL AND FARM DEBT

	Land and Buildings	Livestock and Poultry	Implements and Machinery	Total	Farm Debt
			- thousand dollars -		
1967	3,206,599	604,245	843,354	4,654,198	N/A
1968	3,479,502	579,155	901,989	4,960,646	N/A
1969	3,409,912	746,291	934,211	5,090,414	N/A
1970	3,240,849	797,276	956,970	4,995,095	N/A
1971	3,530,252	803,855	867,446	5,201,553	932,598
1972	4,143,591	1,016,172	905,851	6,065,614	1,042,680
1973	5,181,261	1,380,491	986,590	7,548,342	1,291,334
1974	6,975,770	1,366,308	1,275,851	9,617,929	1,547,015
1975	8,957,880	1,024,330	1,726,808	11,709,018	1,775,419
1976	10,627,528	1,125,454	2,110,053	13,863,035	2,047,308
1977	12,523,091	1,099,894	2,430,618	16,053,603	2,249,456
1978	14,942,972	1,710,604	2,791,088	19,444,664	2,619,123
1979	21,172,490	2,478,357	3,297,240	26,948,087	3,067,422
1980	27,137,589	2,551,751	3,842,797	33,532,137	3,442,132
1981	29,961,159	2,531,865	4,362,215	36,855,239	4,105,139
1982	29,682,516	2,558,137	4,718,939	36,959,592	4,604,131
1983	27,368,393	2,560,395	4,939,443	34,868,231	5,040,737
1984	24,966,230	2,589,888	4,997,971	32,554,089	5,174,740
1985	23,019,800	2,333,315	5,143,193	30,496,308	5,353,043
1986	20,773,520	2,430,102	5,382,302	28,585,924	5,549,580
1987r	19,817,938	2,741,158	5,341,064	27,900,160	5,497,981
1988r	19,302,672	2,868,687	5,305,399	27,476,758	5,604,135
1989r	21,329,453	2,996,337	5,401,964	29,727,755	5,832,088
1990p	22,502,573	3,040,002	5,564,493	31,107,068	6,177,483

p Preliminary
r Revised
N/A Data not available

FIELD CROPS

1990 production of the six major grains was over 16.1 million metric tonnes. This was above the five year average of 15.04 million metric tonnes. Production levels for 1990 were also above the 1989 crop of 15.3 but below the record crop of 17.69 million metric tonnes recorded in 1986. The area seeded to the six major crops in 1990/91 was 18,319,253 acres, only slightly higher than the 18,130,000 acres seeded in 1989/90. The area in hay production also increased by one percent to 4,998,833 acres. Over 336,500 acres of special crops were grown.

CONDITIONS PRIOR TO THE 1990 GROWING SEASON

Frequent showers from mid-August to mid-September delayed or halted harvest across the province. A heavy frost in early September also decreased the grain quality in many areas. With favorable harvest weather from mid-September onward, harvest progress caught up to the four year average by early October and was completed by mid-October. By the end of October, precipitation levels were below average in most areas of the province with the exception of the north central region.

In the spring of 1990, soil moisture levels were generally good with the exception of below average subsurface moisture reserves in some parts of the southern and eastern regions. The incidence of winterkill in fall crops was minimal.

CROP CONDITIONS DURING THE 1990 GROWING SEASON

Field Crops

The season began with generally good surface moisture levels across the province. However, the southern and eastern areas had poor subsurface reserves. Continual damp weather and cool soil temperatures delayed field work and seeding across most of the province. As a result, the percentage of acreage seeded in the province remained behind average until mid June. Some acreages in the central regions, the southwest corner of the province and some areas of the Peace River Region were never seeded due to excessive moisture. In contrast, eastern areas of the province started with poor moisture reserves and received little rain allowing the farmers to seed earlier. By mid-June these crops were already suffering from moisture stress.

A week of generally sunny weather in late June allowed tillage, seeding and spraying to recommence in areas previously too wet. While crops in the Peace River Region recovered from excessive moisture, heavy rains in early July caused flooding in central and northern districts. Hot weather in July helped crops to advance rapidly. Leaf diseases of cereals and fungal diseases in canola were common due to the wet weather.

Harvest generally began in late August to early September throughout the province. Favorable weather with only light showers and no frost allowed harvest progress to be 88 per cent complete by mid-September as compared to 55 per cent for the five year average for that time. Harvest was basically complete with the exception of a few late seeded crops by the end of September, which is two weeks ahead of normal.

Provincial yields were average or slightly above average for most grains. Production of the six major grains was 16.1 million tonnes, which was the second largest crop on record for the province. The favorable harvest weather resulted in high quality crops. Over 80 per cent of Hard Red Spring Wheat graded No.1 or No.2 CW. Approximately 14 per cent of barley was of malt quality, in comparison to a five year average of ten per cent.

Forage Crops

Pastures and hay were generally in good condition, though spring growth was slow due to cool soil temperatures. Rain in June aided forage crops in the southern and eastern areas, but more was needed in order to maintain growth through the season. Ample rain in the rest of the province allowed pastures and hay to grow rapidly once soil temperatures improved. Generally dry weather from mid-July through August caused pasture conditions to deteriorate rapidly in eastern areas and cattle were removed from pastures slightly earlier than normal across the province. Hay yields and quality were variable across the province due to the excess moisture early in the 1990 growing season followed by the very dry weather pattern which ended the season.

INSECTS AND DISEASE

Insect and disease problems were a concern this year. Beet webworm, clover cutworm and bertha army worm infestations were widespread. Leaf diseases in cereals and fungal diseases in canola were common due to damp weather.

Beet webworm and clover cutworm infestations were widespread in eastern and central Alberta, particularly from late June through July. Bertha army worm infestations peaked in early August in southern and central canola growing areas. Spraying occurred for all pests with the acreage sprayed for bertha army worms larger than that sprayed in the early seventies during the last outbreak peak. High counts of grasshoppers were found north of Edmonton, near Fort Vermilion, in the east, and in southwestern areas of the province. In the south, aphids were present in moderate numbers late in the season on cereals and forages. The Russian Wheat Aphid was sighted in the southwest and reached the same population levels as in 1988. Other minor pest problems included wireworms, stinkbugs and flea beetles.

Head and fungal diseases began to develop early in the season. Heavy rain in early July followed by hot weather was ideal for fungal diseases such as sclerotinia, blackleg and black spot in canola. Blackleg in canola was reported in some north central areas, further south than in previous years. Root rot was also a problem, along with net blotch and scald in barley. Heavy rains also caused yellowing of crops in July.

HAIL AND WEATHER DAMAGE

The Alberta Hail and Crop Insurance Corporation has reported that farmers insured approximately 11.8 million acres. The total premiums amounted to more than $170 million. Indemnities paid out as of December 11, 1990 were $93.6 million. Crop indemnities amounted to 52 per cent of the payout while hail accounted for 16 per cent. The Forage Program paid out 29 per cent of all indemnities.

IRRIGATION

The irrigation of field crops is a vital aspect of agriculture in Alberta and contributes to the stability of the southern Alberta economy. In 1990, the 13 Irrigation Districts had close to 1.2 million acres assessed as irrigable with 1.1 million acres actually being irrigated. This accounts for almost two-thirds of the irrigated land base in Canada. Cereal grains continue to be the most prominent crops grown under irrigation, representing 45 per cent of the irrigated acreage. Hay area followed with 24 per cent of the acreage. Oilseeds and other speciality crops were 7.4 per cent and 5.7 per cent respectively, of the total irrigated acreage.

All of Alberta's sugar beet crop and the majority of provincial commercial vegetables and potatoes are grown under irrigation.

Table 10
IRRIGATION BY DISTRICT, 1990

District	Assessed Irrigable Acres*	Acres Actually Irrigated
Aetna	3,500	2,446
Bow River	199,980	183,147
Eastern	260,523	253,259
Leavitt	4,742	4,500
Lethbridge Northern**	122,102	127,440
Magrath	15,099	14,000
Mountain View	3,728	2,500
Raymond	44,044	36,911
Ross Creek	1,210	0
St. Mary's River	349,849	338,274
Taber	74,568	73,329
United	34,769	11,523
Western	88,480	49,000
Total	1,202,594	1,096,329

* Permanent and terminable
** Assessed Acres are less than the Actually Irrigated Acres because there are 9,930 "Restricted" Acres which have not been included in the Assessed Acres.

Table 11
CROP ACRES IN THE MAJOR IRRIGATION DISTRICTS

	1987	1988	1989	1990
		- acres -		
Total Grains(1)	493,390	464,191	509,815	496,733
Total Oilseeds(2)	61,131	100,960	64,788	81,061
Total Hay(3)	251,494	258,438	257,719	260,348
Total Tame Pasture	62,794	65,748	73,643	77,653
Total Other Fodder(4)	37,275	41,094	49,777	58,352
Total Sugar Beets	29,382	29,456	29,618	32,824
Total Potatoes	17,692	16,316	18,729	23,194
Total Other Specialty Crops(5)	67,021	66,325	65,563	62,447
Total Crops Irrigated	1,020,179	1,042,528	1,069,652	1,092,612
Total Summerfallow	10,899	10,146	3,117	3,717
Total Irrigated Cropland	1,031,078	1,052,674	1,072,769	1,096,329

1 Wheat, oats, barley, mixed grain and rye.
2 Flaxseed, canola/rapeseed, sunflowers and mustard.
3 Alfalfa hay and sweet clover hay.
4 Greenfeed, silage corn, silage and grass hay.
5 Peas, corn, beans, timothy, brome grass, alfalfa seed, sweet clover seed, small seeds and miscellaneous crops.

Table 12
PRECIPITATION RECORDED AT SELECTED ALBERTA STATIONS

Stations	April 1 - October 31 Incl. 1989	1990	1990/Normal*
	- millimeters -		-%-
Medicine Hat	241.0	193.2	75
Lethbridge	338.5	214.5	68
Pincher Creek	388.2	353.9	91
Calgary	303.0	343.1	99
Coronation	288.2	269.0	92
Red Deer	383.2	488.1	129
Rocky Mtn House	426.8	483.1	109
Lloydminster	378.6	287.5	81
Vegreville	374.0	319.1	97
Edmonton	406.0	417.5	115
Whitecourt	659.3	435.1	102
Cold Lake	344.3	284.1	79
Fort McMurray	397.5	352.3	98
Grande Prairie	543.7	331.1	105
Peace River	334.2	218.7	79
High Level	258.3	349.6	114

*Normal - 1951-1980 long term average.

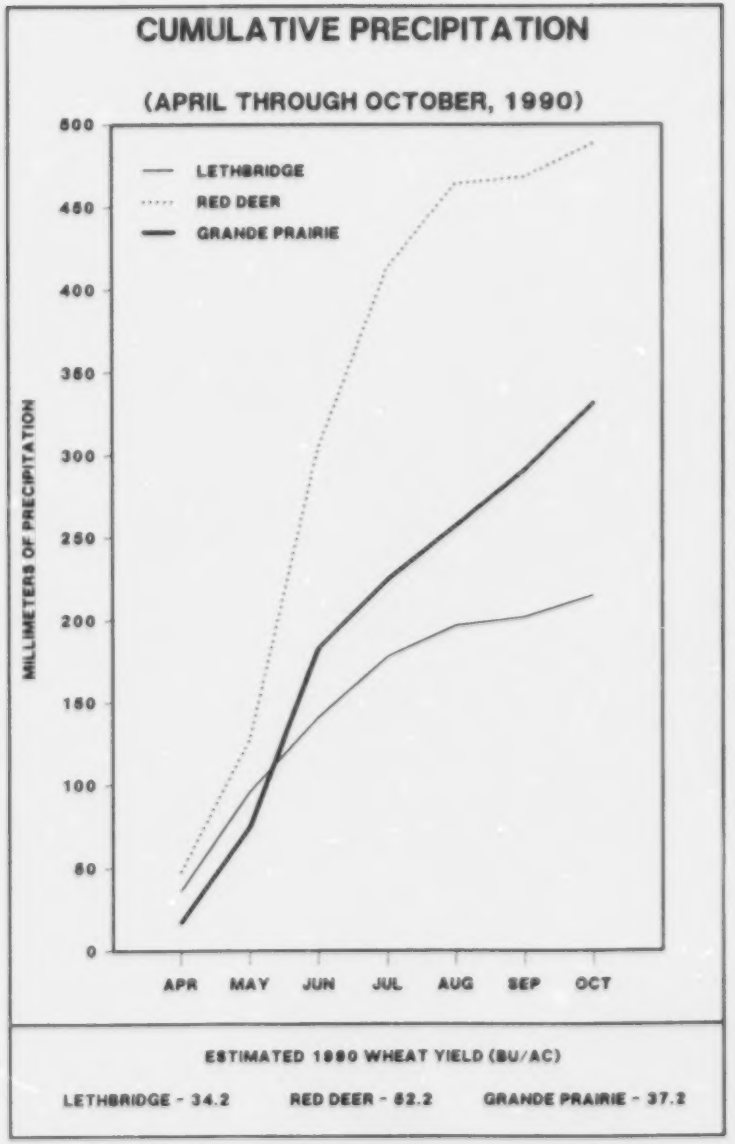


Table 13
HAIL AND CROP INSURANCE

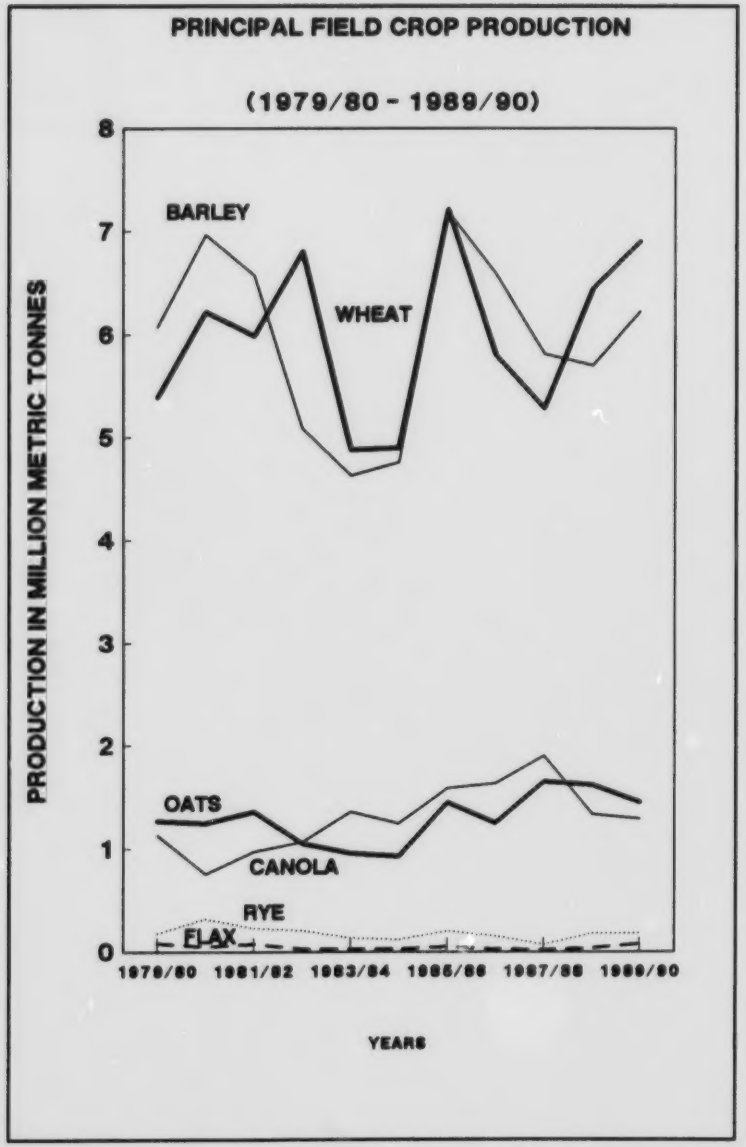
	No. of Farmers Insured(1)	Acres Insured '000	Premium(2) $'000	Liability $'000	Indemnities $'000
1970	12,856	2,306	2,730	31,941	1,699
1971	11,323	2,429	2,900	33,310	2,410
1972	10,202	2,314	2,784	37,073	2,119
1973	12,296	3,201	7,883	73,399	6,436
1974	13,883	3,838	14,356	125,863	13,806
1975	18,685	5,113	27,259	215,976	18,320
1976	18,580	5,343	30,298	229,289	16,500
1977	20,878	6,301	36,954	279,520	38,130
1978	19,258	5,908	38,484	259,967	22,686
1979	18,658	5,933	42,554	282,846	26,304
1980	20,138	6,970	55,915	389,136	31,793
1981	19,878	7,163	66,529	493,528	27,215
1982	19,600	7,375	71,579	557,638	62,502
1983	20,933	8,443	88,086	673,083	75,467
1984	23,305	9,552	99,092	774,201	199,616
1985	23,433	10,678	117,489	863,115	274,359
1986	30,158	11,953	147,204	926,587	124,439
1987	28,395	11,075	108,943	649,282	99,010
1988r	34,090	11,675	132,963	791,221	155,890
1989r	37,661	12,803	180,514	1,083,701	189,264
1990p	32,696	11,894	156,663	957,155	100,416

1 Includes all crops, hay and pasture, alfalfa and processing vegetables.
2 Includes farmer and Federal shares, Provincial high risk subsidy and hail endorsement.

Table 14
SUMMERFALLOW AREA

Census Division	1989r	1990
	- thousand acres -	
1	561	559
2	615	644
3	144	173
4	709	737
5	853	897
6 & 15	159	186
7	442	471
8	55	81
9	5	5
10	486	471
11	98	118
12	96	107
13	117	108
14	11	-
16	30	24
17	215	207
18	39	46
19	315	365
Province	4,950	5,199

p Preliminary
r Revised


PRINCIPAL FIELD CROP PRODUCTION
(1979/80 - 1989/90)
PRODUCTION IN MILLION METRIC TONNES
8
7
6
5
4
3
2
1
0
BARLEY
WHEAT
OATS
CANOLA
RYE
FLAX
1979/80
1981/82
1983/84
1985/86
1987/88
1989/90
YEARS

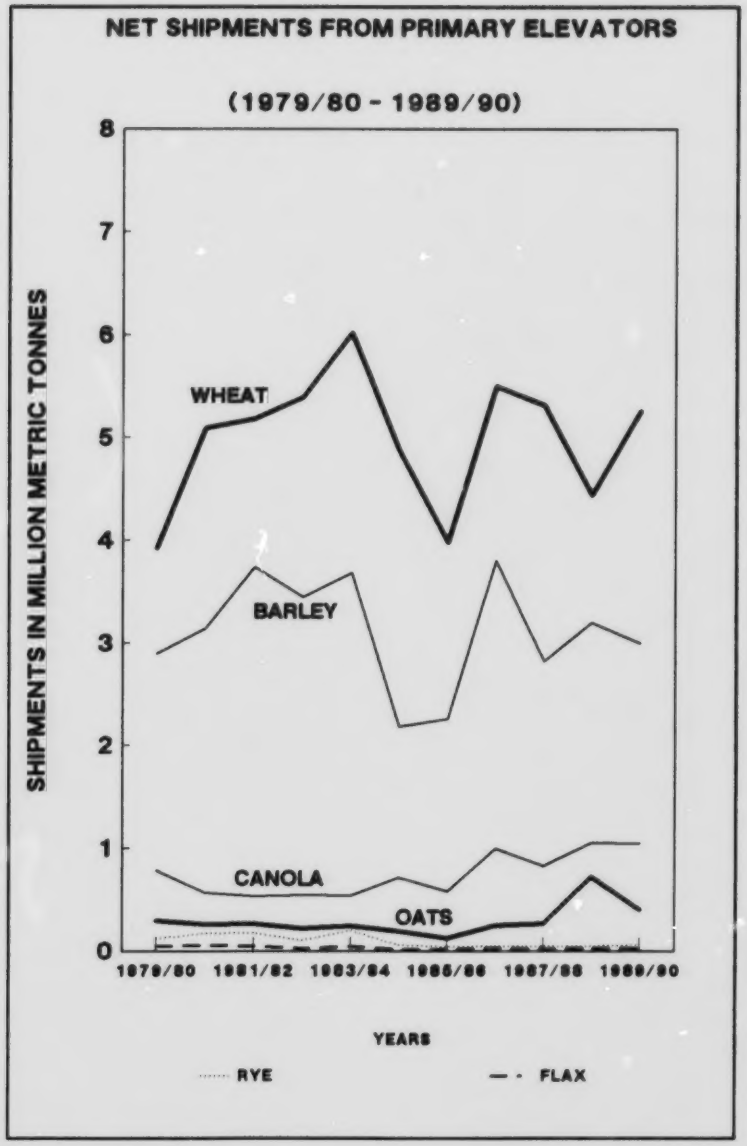

NET SHIPMENTS FROM PRIMARY ELEVATORS
(1979/80 - 1989/90)
SHIPMENTS IN MILLION METRIC TONNES
8
7
6
5
4
3
2
1
0
WHEAT
BARLEY
CANOLA
OATS
1979/80
1981/82
1983/84
1985/86
1987/88
1989/90
YEARS
RYE
FLAX

Table 15
AREA, YIELD AND PRODUCTION OF PRINCIPAL FIELD CROPS

Census Division	Area*		Yield Per Acre		Production	
	1989r	1990	1989r	1990	1989r	1990
	- acres -		- bushels -		- tonnes -	
			ALL WHEAT			
1	688,000	741,000	25.5	26.0	477 100	523 400
2	959,000	932,000	44.1	34.2	1 152 400	869 900
3	459,000	413,000	28.7	31.5	358 800	353 800
4	710,000	676,000	12.5	12.6	242 300	232 400
5	1,213,000	1,157,000	29.4	33.0	970 100	1 038 400
6 & 15	285,000	285,000	37.2	41.5	288 300	321 800
7	843,000	848,000	25.3	35.5	579 600	818 800
8	102,000	125,000	48.8	52.2	135 300	176 800
9	1,000	1,000	32.0	34.0	900	900
10	899,000	927,000	36.5	34.8	893 200	878 400
11	162,000	165,000	44.7	53.3	197 200	239 400
12	100,000	133,000	34.5	31.3	93 700	112 500
13	101,000	124,000	41.3	45.7	113 500	154 100
14	4,000	4,000	32.3	34.3	3 500	3 700
16	8,000	5,000	32.3	34.2	7 000	4 700
17	291,000	369,000	33.0	34.6	261 600	347 100
18	69,000	71,000	32.2	36.3	60 500	70 100
19	706,000	744,000	31.7	37.2	610 000	753 700
Province	7,600,000	7,720,000	31.2	32.8	6 445 000	6 899 900

* Harvested acreage
r Revised

Table 15 (cont'd)
AREA, YIELD AND PRODUCTION OF PRINCIPAL FIELD CROPS

Census Division	Area* 1989r	Area* 1990	Yield Per Acre 1989r	Yield Per Acre 1990	Production 1989r	Production 1990
	- acres -		- bushels -		- tonnes-	
			OATS FOR GRAIN			
1	21,000	16,000	39.4	37.6	13 000	9 300
2	24,000	29,000	68.4	57.7	25 000	25 800
3	54,000	37,000	51.6	60.9	43 000	34 700
4	57,000	39,000	24.9	28.5	22 000	17 100
5	50,000	57,000	44.9	54.9	35 000	48 200
6 & 15	101,000	76,000	64.0	72.0	100 000	84 400
7	210,000	206,000	46.9	56.9	152 000	180 900
8	63,000	41,000	73.4	78.9	71 000	49 900
9	25,000	17,000	72.2	60.6	28 000	15 900
10	265,000	246,000	65.5	60.8	268 000	230 500
11	201,000	174,000	71.0	73.3	220 000	196 600
12	91,000	59,000	54.3	53.5	76 000	48 700
13	182,000	164,000	72.9	72.2	204 000	182 500
14	17,000	11,000	61.4	60.6	16 000	10 300
16	35,000	30,000	53.0	60.7	29 000	28 100
17	142,000	111,000	62.8	58.5	137 000	100 100
18	12,000	30,000	66.3	60.7	12 000	28 100
19	150,000	157,000	72.7	65.4	168 000	158 400
Province	1,700,000	1,500,000	61.8	62.7	1 619 000	1 450 000

* Harvested acreage
r Revised

Table 15 (cont'd)
AREA, YIELD AND PRODUCTION OF PRINCIPAL FIELD CROPS

Census Division	Area*		Yield Per Acre		Production	
	1989r	1990	1989r	1990	1989r	1990
	- acres -		- bushels -		- tonnes -	
			BARLEY FOR GRAIN			
1	52,000	61,000	44.6	45.5	50 000	60 000
2	262,000	265,000	68.6	66.8	391 000	385 000
3	386,000	390,000	45.1	52.1	379 000	442 000
4	40,000	45,000	24.1	26.5	21 000	26 000
5	393,000	425,000	44.6	52.2	382 000	483 000
6 & 15	553,000	520,000	56.2	59.1	676 000	669 000
7	376,000	379,000	40.7	52.6	333 000	434 000
8	562,000	570,000	60.3	58.5	737 000	726 000
9	38,000	22,000	52.1	50.2	43 000	24 000
10	654,000	645,000	53.2	53.2	758 000	749 000
11	489,000	501,000	55.6	68.3	592 000	745 000
12	201,000	183,000	45.5	54.1	199 000	215 000
13	429,000	432,000	47.1	63.5	440 000	597 000
14	14,000	15,000	38.1	55.1	12 000	18 000
16	18,000	19,000	40.2	45.2	16 000	19 000
17	266,000	254,000	46.2	43.4	268 000	240 000
18	26,000	25,000	47.3	55.1	27 000	30 000
19	341,000	349,000	51.2	48.1	380 000	365 000
Province	5,100,000	5,100,000	51.4	56.1	5 704 000	6 227 000

* Harvested acreage
r Revised

Table 15 (cont'd)
AREA, YIELD AND PRODUCTION OF PRINCIPAL FIELD CROPS

Census Division	Area*		Yield Per Acre		Production	
	1989r	1990	1989r	1990	1989r	1990
	- acres -		- bushels -		- tonnes -	
			CANOLA / RAPESEED			
1	16,400	15,600	40.0	40.3	14 900	14 200
2	39,300	38,300	31.5	32.0	28 000	27 800
3	29,500	28,400	22.3	23.1	14 900	14 900
4	27,200	16,700	8.0	12.8	4 900	4 900
5	192,100	146,400	21.1	22.8	91 700	75 600
6 & 15	172,200	140,200	22.8	23.1	89 000	73 600
7	462,600	388,500	19.6	21.1	205 300	186 100
8	160,900	170,000	24.5	24.0	89 500	92 600
9	3,100	2,900	22.5	22.8	1 600	1 500
10	619,700	590,400	23.4	23.2	329 200	310 600
11	83,800	82,100	23.7	28.4	45 100	52 800
12	115,200	113,000	20.8	21.5	54 200	55 100
13	130,900	183,100	20.0	23.9	59 500	99 200
14	800	800	22.5	22.5	400	400
16	7,700	7,300	22.5	22.6	3 900	3 700
17	246,200	248,700	19.3	17.7	107 900	99 900
18	39,800	46,700	22.5	22.6	20 300	23 900
19	352,600	380,900	22.2	18.1	177 700	156 200
Province	2,700,000	2,600,000	21.9	21.9	1 338 000	1 293 000

* Harvested acreage
r Revised

Table 15 (cont'd)
AREA, YIELD AND PRODUCTION OF PRINCIPAL FIELD CROPS

A.R.A.	Area* 1989r	Area* 1990	Yield Per Acre 1989r	Yield Per Acre 1990	Production 1989r	Production 1990
	- acres -		- bushels -		- tonnes -	
			FLAXSEED			
1	15,700	27,600	22.0	27.4	8 800	19 200
2	27,800	37,600	22.7	25.2	16 000	24 000
3	3,000	5,100	19.3	18.3	1 500	2 400
4A	15,700	16,000	14.4	21.1	5 700	8 600
4B	9,200	17,300	19.3	24.3	4 500	10 700
5	2,000	3,400	17.5	25.4	900	2 200
6	2,000	3,400	19.6	23.0	1 000	2 000
7	4,600	29,600	19.2	16.3	2 200	12 200
Province	80,000	140,000	20.0	22.9	40 600	81 300
			ALL RYE			
1	56,900	76,300	18.3	12.6	26 400	24 400
2	68,100	77,000	32.8	28.6	56 800	56 300
3	46,800	53,900	36.2	35.7	43 100	48 800
4A	54,500	56,400	29.2	22.8	40 500	32 500
4B	9,400	10,800	28.5	33.0	6 800	9 100
5	5,900	7,300	37.7	23.2	5 600	4 300
6	3,000	3,500	34.1	24.3	2 600	2 200
7	5,400	4,800	26.7	24.8	3 700	3 100
Province	250,000	290,000	29.2	24.5	185 500	180 700

* Harvested acreage
r Revised

Table 15 (cont'd)
AREA, YIELD AND PRODUCTION OF PRINCIPAL FIELD CROPS

A.R.A.	Area 1989r	Area 1990	Yield Per Acre 1989r	Yield Per Acre 1990	Production 1989r	Production 1990
	- acres -		TAME HAY - tons -		- tons -	
1	215,000	216,000	1.6	1.7	353 200	367 100
2	337,000	351,000	2.9	3.4	979 900	1 178 200
3	402,000	404,000	1.9	2.5	755 600	1 019 700
4A	223,000	240,000	1.2	1.8	255 800	436 200
4B	268.000	288,000	1.8	1.4	470 900	412 700
5	1,011,000	1,011,000	2.7	2.7	2 740 800	2 724 900
6	1,088,000	1,097,000	2.2	2.2	2 400 800	2 419 200
7	1,056,000	1,043,000	1.8	1.9	1 843 000	1 942 000
Province	4,600,000	4,650,000	2.1	2.3	9 800 000	10 500 000
	- acres -		OTHER CROPS		- tonnes -	
Winter Wheat	150,000	170,000	32.0 (bu)	35.3 (bu)	131 000	163 000
Durum Wheat	1,000,000	850,000	30.0 (bu)	28.8 (bu)	816 000	667 000
Mixed Grains	180,000	200,000	50.0 (bu)	50.0 (bu)	184 000	204 000
Fall Rye	200,000	240,000	30.5 (bu)	27.5 (bu)	155 000	168 000
Spring Rye	50,000	50,000	24.0 (bu)	10.0 (bu)	30 500	12 700
Corn for Grain(1)	9,000	7,000	61.1 (bu)	98.7 (bu)	14 000	17 600
Peas, dry (1)	110,000	100,000	30.7 (bu)	41.0 (bu)	91 900	111 600
Lentils (1)	5,000	5,000	930.0 (lbs)	1,368.0 (lbs)	2 100	3 100
Mustard Seed (1)	80,000	90,000	890.0 (lbs)	955.0 (lbs)	32 200	38 900
Potatoes	25,200	25,500	230.0 (cwt)	240.0 (cwt)	285 800	277 600
Sugar Beets	29,500	32,700	16.9 (tonnes)	18.1 (tonnes)	499 100	590 200
Fodder Corn (1)	15,000	15,000	15.3 (tons)	15.8 (tons)	208 200	215 000

1 The 1990 estimates for these crops are from the Alberta Agriculture Specialty Crop Survey, 1990. These estimates are on a field run basis.

r Revised

Table 16
FARM SUPPLY AND DISPOSITION OF PRINCIPAL CROPS

	WHEAT				OATS			
	1986-87	1987-88	1988-89r	1989-90p	1986-87	1987-88	1988-89r	1989-90p
	- thousand tonnes -				- thousand tonnes -			
Opening Stocks Aug. 1	200.0	950.0	550.0	220.0	170.0	430.0	300.0	250.0
Production	7 212.0	5 796.0	5 285.0	6 445.0	1 450.0	1 249.3	1 650.0	1 619.0
TOTAL SUPPLY	7 412.0	6 746.0	5 835.0	6 665.0	1 620.0	1 679.3	1 950.0	1 869.0
Marketings	5 430.8	5 116.2	4 434.1	5 513.2	288.1	333.4	777.7	598.8
Seed	277.4	266.0	289.0	293.4	56.0	68.5	77.7	70.3
Carryover	950.0	550.0	220.0	250.0	430.0	300.0	250.0	400.0
Feed, Waste and Dockage(2)	753.8	813.8	891.9	608.4	845.9	977.4	844.6	799.9
TOTAL DISPOSITION	7 412.0	6 746.0	5 835.0	6 665.0	1 620.0	1 679.3	1 950.0	1 869.0

	BARLEY				CANOLA(1)			
	1986-87	1987-88	1988-89r	1989-90p	1986-87	1987-88	1988-89r	1989-90p
	- thousand tonnes -				- thousand tonnes -			
Opening Stocks Aug. 1	400.0	700.0	1 200.0	600.0	85.0	70.0	60.0	190.0
Production	7 185.0	6 586.7	5 813.0	5 704.0	1 588.0	1 633.0	1 905.0	1 338.0
TOTAL SUPPLY	7 585.0	7 286.7	7 013.0	6 304.0	1 673.0	1 703.0	1 965.0	1 528.0
Marketings	3 942.2	2 914.5	3 408.6	2 698.3	1 462.5	1 498.2	1 568.2	1 407.7
Seed	220.2	170.0	183.6	183.6	7.8	10.5	8.1	7.8
Carryover	700.0	1 200.0	600.0	530.0	70.0	60.0	190.0	110.0
Feed, Waste and Dockage(2)	2 722.6	3 002.2	2 820.8	2 892.1	132.7	134.3	198.7	2.5
TOTAL DISPOSITION	7 585.0	7 286.7	7 013.0	6 304.0	1 673.0	1 703.0	1 965.0	1 528.0

1 Alberta marketings are over estimated as Saskatchewan canola is often delivered to Lloydminster, Alberta. This can attribute to a negative Feed, Waste and Dockage value.
2 Feed, Waste and Dockage is a residual.
p Preliminary
r Revised

Table 17
STOCKS OF GRAIN ON FARMS AT JULY 31

	Wheat	Oats	Barley	Rye	Flax-seed	Canola/ Rapeseed
			- thousand tonnes -			
1966	626	386	435	25	10	N/A
1967	1 089	463	675	18	10	9
1968	1 415	339	631	20	3	18
1969	2 313	447	1 393	25	5	4
1970	2 722	555	1 676	36	5	2
1971	1 851	478	631	46	53	2
1972	1 034	370	653	51	18	79
1973	544	339	827	18	3	2
1974	408	278	566	25	5	16
1975	354	231	479	36	13	34
1976	299	262	544	41	13	136
1977	1 334	308	631	25	5	11
1978	599	386	1 350	25	3	14
1979	1 361	355	1 393	97	5	91
1980	680	232	500	56	2	120
1981	355	230	610	20	10	170
1982	1 010	230	1 070	38	3	34
1983	500	350	1 560	60	8	15
1984	480	200	570	30	3	3
1985	260	180	450	35	7	40
1986	200	170	400	35	2	85
1987	950	430	700	60	10	70
1988	550	300	1 200	60	5	60
1989r	220	250	600	25	5	200
1990	250	400	530	50	-	110

r Revised
N/A Data not available.

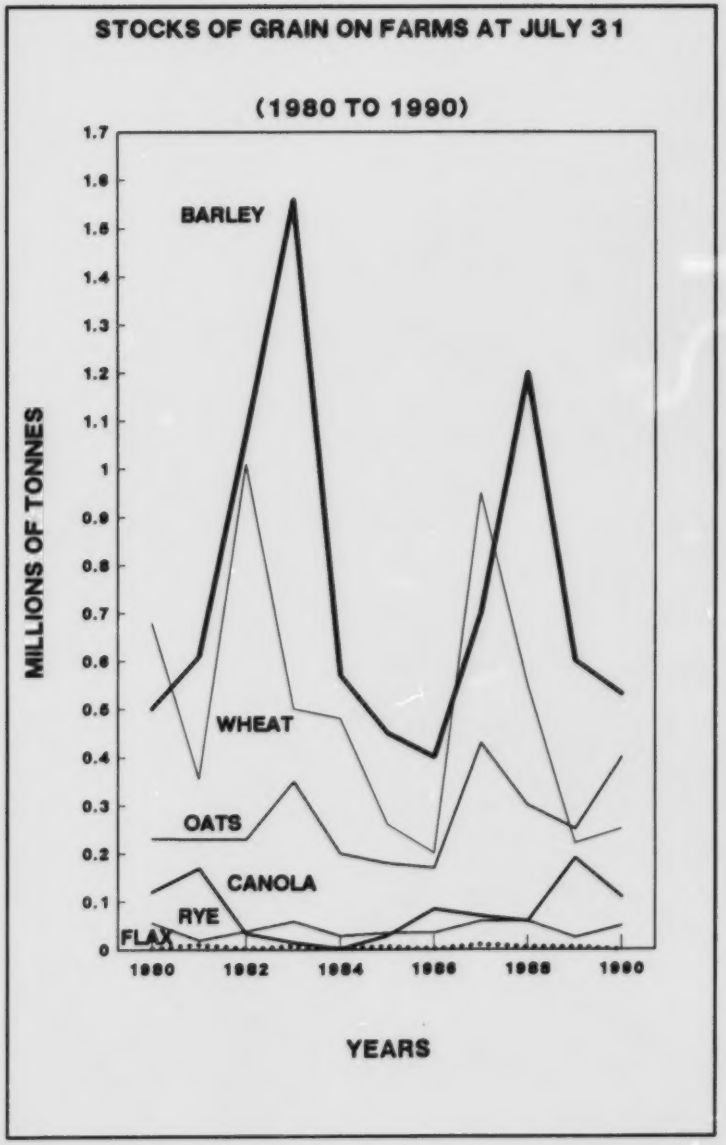


Table 18
CANADIAN WHEAT BOARD PAYMENTS, 1990-91

WHEAT(1)	Initial Payment - $/tonne -
No. 1 C.W. Red Spring (14.5%)	118.30
No. 1 C.W. Red Spring (13.5%)	116.30
No. 1 C.W. Red Spring	114.09
No. 2 C.W. Red Spring (13.5%)	109.30
No. 2 C.W. Red Spring	108.30
No. 3 C.W. Red Spring	96.30
No. 1 Canada Prairie Spring (Red)	92.30
No. 2 Canada Prairie Spring (Red)	90.30
No. 1 C.W. Utility	100.30
No. 2 C.W. Utility	83.30
Canada Western Feed	74.09
No. 1 C.W. Red Winter	97.30
No. 2 C.W. Red Winter	95.30
No. 3 C.W. Red Winter	82.09
No. 1 C.W. Soft White Spring	96.09
No. 2 C.W. Soft White Spring	93.09
No. 3 C.W. Soft White Spring	82.09
No. 1 C.W. Amber Durum	104.09
No. 2 C.W. Amber Durum	101.09
No. 3 C.W. Amber Durum	97.09

BARLEY(2)	Initial Payment - $/tonne -
No. 1 C.W.	68.01
No. 2 C.W.	65.01
DESIGNATED BARLEY(2)	
Special Select C.W. 2 - Row	103.01
Special Select C.W. 6 - Row	93.01
Select C.W. 2 - Row	98.01
Select C.W. 6 - Row	88.01
Sample Select C.W. 2 - Row	94.76
Sample Select C.W. 6 - Row	84.76

1 Deductions include freight at $9.19 per tonne (41.03 cents per cwt.) Calgary or Edmonton to Vancouver or Prince Rupert; estimated elevation charges of $8.60 per tonne and $2.32 per tonne for removal of dockage (Alberta Wheat Pool).

2 Deductions include freight at $9.19 per tonne (41.03 cents per cwt.) Calgary or Edmonton to Vancouver or Prince Rupert; estimated elevation charges of $10.65 per tonne and $2.15 per tonne for removal of dockage (Alberta Wheat Pool). Barley values include adjustments $12.50/ tonne for designated grades.

Table 19
CANADIAN WHEAT BOARD PAYMENTS, 1989-90

	Initial Payment	Adjust. Payment	Final Payment	Realized Payment
	- dollars per tonne -			
WHEAT(1)				
No. 1 C.W.R.S.(14.5%)	141.40	10.00	11.93	163.33
No. 1 C.W.R.S.(13.5%)	139.40	10.00	9.52	158.92
No. 1 C.W.R.S.	137.19	10.00	7.11	154.30
No. 2 C.W.R.S.(13.5%)	132.40	10.00	4.36	146.76
No. 2 C.W.R.S.	131.40	10.00	8.87	150.27
No. 3 C.W.R.S.	117.40	10.00	15.92	143.32
No. 1 C.P.R.S.	113.40	10.00	19.92	143.32
No. 2 C.P.R.S.	111.40	10.00	19.92	141.32
No. 1 C.W. Utility...	121.40	10.00	13.92	145.32
No. 2 C.W. Utility...	104.40	10.00	20.92	135.32
Canada Western Feed..	82.19	10.00	28.08	120.27
No. 1 C.W.R.W.	116.40	10.00	18.92	145.32
NO. 2 C.W.R.W.	114.40	10.00	18.92	143.32
No. 3 C.W.R.W.	92.19	10.00	38.13	140.32
No. 1 C.W.S.W.S.	117.19	20.00	8.42	145.61
No. 2 C.W.S.W.S.	114.19	20.00	8.42	142.61
No. 3 C.W.S.W.S.	92.19	10.00	33.42	135.61
No. 1 C.W.A.D.	132.19	-	13.85	146.04
No. 2 C.W.A.D.	129.19	-	11.47	140.66
No. 3 C.W.A.D.	125.19	-	10.37	135.56

	Initial Payment	Adjust. Payment	Final Payment	Realized Payment
BARLEY(2)				
No. 1 C.W.	65.44	15.00	12.38	92.82
No. 2 C.W.	62.44	15.00	14.89	92.33
DESIGNATED BARLEY(2)				
Spec. Sel. C.W. 2-R ..	95.44	55.00	15.91	166.35
Spec. Sel. C.W. 6-R ..	85.44	55.00	16.41	156.85
Select C.W. 2-Row	90.44	55.00	18.41	163.85
Select C.W. 6-Row	80.44	55.00	18.91	154.35
Sample Sel.C.W. 2-R ..	87.19	55.00	-	142.19
Sample Sel.C.W. 6-R ..	77.19	55.00	-	132.19

1 Deductions include freight at $8.11 per tonne (37.00 cents per cwt.) Calgary or Edmonton to Vancouver; estimated elevation charges of $7.65 per tonne and $2.05 per tonne for removal of dockage (Alberta Wheat Pool).

2 Deductions include freight at $8.11 per tonne (37.00 cents per cwt.) Calgary or Edmonton to Vancouver; estimated elevation charges of $9.45 per tonne and $2.00 per tonne for removal of dockage (Alberta Wheat Pool).

Table 20
AVERAGE MONTHLY CASH GRAIN PRICES, 1989-90

	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Year
						- dollars per tonne -							
WHEAT - Export - Canadian Wheat Board (1) - Basis in Store Pacific Coast													
1 C.W.R.S.(11.5%)	219.99	219.71	216.67	215.40	214.40	212.74	209.45	204.25	202.63	201.81	191.99	176.17	207.06
1 C.W.R.S.(12.5%)	226.99	226.71	223.67	222.40	221.40	219.74	216.45	211.25	209.63	208.81	193.97	183.17	214.06
1 C.W.R.S.(13.5%)	230.59	230.31	227.27	226.00	225.00	223.34	220.05	214.85	213.23	212.41	202.59	186.77	217.66
2 C.W.R.S.(13.5%)	224.99	224.71	221.67	220.40	219.40	217.74	214.45	209.25	207.63	206.91	196.99	171.17	212.06
3 C.W.R.S.	214.99	214.71	211.67	210.40	209.40	207.74	204.45	199.25	197.63	196.81	186.99	171.17	202.06
1 C.W.R.W.	216.99	216.71	213.67	212.40	211.40	209.74	206.45	201.25	199.63	198.81	188.99	173.17	204.06
2 C.W.R.W.	214.99	214.71	211.67	210.40	209.40	207.74	204.45	199.25	197.63	196.81	186.99	171.17	202.06
3 C.W.R.W.	211.99	211.71	208.67	207.40	206.40	204.74	201.45	196.25	194.63	193.81	183.99	168.17	197.06
BARLEY - Malting - Canadian Wheat Board (1) - Basis in Store Thunder Bay													
Special Select 6-Row	255.25	255.25	255.25	255.25	255.25	255.25	250.75	230.48	217.36	221.70	212.81	189.19	237.76
Select 6-Row	252.75	252.75	252.75	252.75	252.75	252.75	248.25	227.78	214.36	219.20	210.31	186.69	235.26
Special Select 2-Row	261.25	261.25	261.25	261.25	261.25	261.75	256.75	236.48	223.36	227.70	218.81	195.19	243.74
Select 2-Row	258.75	258.75	258.75	258.75	258.75	258.75	254.25	233.78	320.36	225.20	216.31	192.69	241.26

1 Canadian Wheat Board asking price.

Table 20 (cont'd)
AVERAGE MONTHLY CASH GRAIN PRICES, 1989-90

	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Year
						- dollars per tonne -							
OATS - Winnipeg Commodity Exchange (2) - Basis in Store Thunder Bay													
1 C.W.	106.52	105.81	111.22	110.99	113.88	106.42	108.85	108.70	112.27	114.26	105.55	87.52	107.62
2 C.W.	106.52	105.81	111.22	110.99	113.88	106.42	108.85	108.70	112.27	114.26	105.55	87.52	107.62
3 C.W.	106.07	102.36	107.18	106.99	109.88	103.06	105.85	105.70	109.47	112.00	104.55	86.52	103.02
4 C.W.	101.07	97.36	102.18	101.99	104.88	98.06	100.85	100.70	104.47	107.80	99.55	81.52	100.02
BARLEY - Domestic - Winnipeg Commodity Exchange (2) - Basis in Store Thunder Bay													
1 C.W.	105.09	102.41	112.72	110.95	110.14	110.37	109.03	107.29	107.02	111.90	111.05	111.32	109.12
2 C.W.	104.09	101.41	111.72	109.95	109.14	109.37	108.03	106.29	106.02	110.90	110.05	110.32	108.12
RYE - Winnipeg Commodity Exchange (2) - Basis in Store Thunder Bay													
1 C.W.	109.52	113.94	117.86	116.35	114.46	114.51	113.56	112.86	108.02	112.35	106.78	97.23	111.44
2 C.W.	107.52	111.94	115.86	114.35	112.46	112.51	111.56	110.86	106.02	110.35	104.78	95.23	109.44
3 C.W.	79.52	83.94	87.86	86.35	84.46	84.51	83.56	82.86	78.02	82.35	76.78	67.23	81.44
FLAXSEED - Winnipeg Commodity Exchange (2) - Basis in Store Thunder Bay													
1 C.W.	333.33	369.16	359.51	343.40	346.43	356.20	404.91	430.05	400.72	417.93	387.83	337.68	374.10
2 C.W.	331.33	367.16	357.51	341.40	344.43	354.20	402.91	428.05	398.72	415.93	385.83	335.68	372.10
3 C.W.	298.33	334.16	324.51	308.40	311.43	321.20	369.91	395.05	365.72	382.93	352.83	302.68	339.10
CANOLA/RAPESEED - Winnipeg Commodity Exchange (2) - Basis in Store Pacific Coast													
1 Canada	289.40	297.10	293.79	303.10	302.54	300.04	301.60	311.00	318.78	322.24	303.90	300.99	303.72
2 Canada	276.40	284.10	280.79	290.10	287.54	287.04	283.60	298.00	305.78	309.24	290.90	287.99	290.72

2 Monthly average of Winnipeg Commodity Exchange cash quotes.

Table 21
NON-BOARD GRAIN PRICES, 1989-90*

	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Year
						- dollars per tonne -							
LETHBRIDGE													
Wheat	142.93	137.42	130.07	130.44	129.83	134.48	138.52	138.16	135.95	141.83	144.40	145.87	137.49
Oats	127.74	115.42	114.77	105.04	107.64	108.29	105.69	106.34	103.75	106.99	106.99	106.34	109.58
Barley.....	91.86	92.78	96.91	106.56	109.62	113.45	111.15	112.07	112.53	116.20	118.96	112.07	107.85
CALGARY													
Wheat	139.63	134.48	130.07	128.97	127.50	129.71	128.97	134.48	136.32	134.48	141.10	142.93	134.05
Oats	113.47	104.40	98.56	98.50	100.72	99.21	97.26	97.91	97.26	95.96	97.91	97.91	104.53
Barley	91.40	90.94	90.94	96.91	103.65	104.72	102.88	103.80	103.34	102.88	107.94	104.26	100.31
RED DEER													
Wheat	134.48	132.28	127.50	127.13	127.87	127.50	128.24	128.97	122.36	134.48	138.16	144.40	131.11
Oats	97.26	101.80	94.02	97.26	91.21	88.83	88.19	86.24	86.89	86.24	88.19	82.35	90.71
Barley.....	95.99	92.32	90.48	94.16	99.06	101.96	101.05	100.59	101.05	103.34	105.18	99.67	98.74
VERMILION													
Barley.....	97.83	88.64	87.27	89.56	95.69	96.91	97.83	98.75	98.75	98.75	99.67	97.37	95.59
EDMONTON													
Wheat	141.46	137.42	129.71	128.24	129.09	131.18	133.38	134.12	135.59	140.00	143.67	141.10	135.41
Oats	110.23	102.45	94.67	92.08	89.91	90.13	89.48	88.19	88.19	90.13	90.13	84.94	92.54
Barley	94.62	93.24	95.99	98.75	100.43	102.88	103.34	102.42	102.88	104.72	104.72	102.42	100.53
PEACE RIVER													
Wheat	151.75	149.55	129.71	128.24	128.97	138.89	134.85	135.95	135.95	135.95	136.69	135.59	136.84
Oats	119.31	103.75	85.59	80.40	81.92	86.89	84.29	86.24	86.24	86.24	86.24	83.65	89.23
Barley	102.42	93.24	87.73	90.94	93.08	99.67	98.75	98.29	98.29	98.29	98.29	96.91	96.33

* Source: Alberta Grain Commission.

Table 22
MUNICIPAL CO-OPERATIVE SEED CLEANING

	1988-89	1989-90
	- bushels -	
Commercial Seed	24,309,133	23,851,032
Pedigree Seed	2,577,128	2,239,245
Total Seed	26,886,261	26,090,277
Dockage Removed	7,061,567	2,652,493
Cleaning-Total	33,947,328	28,742,770
-Average Per Plant	435,222	368,497
Treated Seed	2,970,571	3,194,967

Table 23
INTENDED AND SEEDED AREAS OF PRINCIPAL FIELD CROPS

	1989		1990	
	Intended*	Seeded	Intended*	Seeded
	- thousand acres -			
Winter Wheat	340	340	200	180
Spring Wheat	6,250	6,450	6,850	6,700
Durum Wheat	1,000	1,000	900	850
All Wheat	7,590	7,790	7,950	7,730
Oats(1)	2,000	2,100	1,900	1,900
Barley(1)	5,800	5,400	5,450	5,400
All Rye	220	270	230	300
Mixed Grain	N/A	N/A	N/A	N/A
Flaxseed	90	80	150	140
Rapeseed/Canola	2,750	2,700	2,400	2,600
Corn for Grain	N/A	N/A	N/A	7
Summerfallow	4,900	4,950	5,000	5,200

* Intentions at March 15.
1 Includes oats and barley for grain and for hay.

Table 24
FERTILIZER SALES*

	1988/89	1989/90
	- tonnes -	
Anhydrous Ammonia (82-0-0)	163 158	165 673
Urea (46-0-0)	285 373	289 351
Ammonium Nitrate (34-0-0)	76 287	61 819
Ammonium Sulphate (21-0-0)	56 697 (1)	62 786
Urea - Ammonium Nitrate Solutions (28-0-0)	30 728	41 379
Other Nitrogen	N/A	N/A
Monoammonium Phosphate (MAP)	284 348	286 174
Diammonium Phosphate (18-46-0)	N/A	N/A
Ammonium Phos-Sulphate (16-20-0)	7 512 (2)	N/A
Other Phosphate	N/A	N/A
10-34-0 (Solution)	N/A	N/A
Muriate of Potash (0-0-60)	38 004	54 171
All Others	2 953	25 628
Elemental Sulphur	N/A	N/A
Micro-nutrients	160	119
TOTAL	952 046	987 100
Nutrients:		
Nitrogen (N)	346 536	352 218
Phosphate (P_2O_5)	148 954	154 816
Potash (K_2O)	23 194	33 044
Sulphur (S)	16 097	17 182
Agricultural Lime (3)	4 094	4 121

* Source: Western Canada Fertilizer Association.

1 Ammonium Sulphate includes 21/20-0-0-24 and 19-3-0-22
2 Ammonium Phos-Sulphate includes 16/17-20-0-14/15
3 Source: Alberta Agriculture

N/A Data not available.

Table 25
FORAGE SEED CROPS INSPECTED FOR PEDIGREE STATUS

	1989	1990
	- acres -	
Alfalfa	13,376	12,648
Alsike Clover	1,384	1,162
Altai Wild Ryegrass	198	112
Birdsfoot Trefoil	350	90
Bromegrass	8,995	4,623
Cicer Milkvetch	127	213
Creeping Red Fescue	21,971	17,892
Crested Wheatgrass	3,720	2,877
Orchardgrass	55	129
Red Clover (single cut)	96	590
Reed Canarygrass	312	0
Sainfoin	0	7
Timothy	12,833	9,672
Meadow Bromegrass	N/A	806

Table 26
PEDIGREED ACRES, 1987 - 1990*

	1987	1988	1989	1990
Wheat	61,310	63,527	78,518	70,942
Oats	18,307	13,766	15,733	17,927
Barley	81,211	54,411	59,107	69,684
Other Cereals	916	2,436	1,567	3,518
Flax	2,083	802	3,586	4,295
Oilseeds	23,138	28,261	30,150	32,550
Special Crops	2,039	6,834	2,216	4,019

* Source: Canadian Seed Growers Association.

Table 27
PROCESSED ALFALFA PRODUCTION

	Production	Total Exports	Value F.O.B. Plant
	- tonnes -		-$'000-
1977-78	166 000	87 000	13,800
1978-79	164 000	114 000	13,600
1979-80	181 000	130 000	17,900
1980-81	139 000	80 000	18,500
1981-82	122 000	68 000	13,500
1982-83	132 000	94 000	16,800
1983-84	201 000	151 000	28,600
1984-85	229 000	165 000	32,800
1985-86	166 000	128 000	22,400
1986-87	253 000	207 000	31,000
1987-88	289 000	223 000	29,500
1988-89	428 000	375 000	53,400
1989-90	450 000	397 000	58,810

Table 28
COMMERCIAL AND PEDIGREE FORAGE SEED PRODUCTION

	1989r	1990
	- tonnes -	
Alfalfa	2 450	3 970
Alsike Clover	860	820
Bromegrass	390	1 380
Creeping Red Fescue	2 450	10 630
Crested Wheatgrass	590	820
Red Clover (single cut)	1 470	1 290
Sweet Clover	360	290
Timothy	1 250	1 990

r Revised

Table 29
TAME HAY PRODUCTION

	Area	Yield Per Acre	Production
	- '000 acres -	- kg -	- '000 tonnes -
1983	3,700	1 765	6 530
1984	3,900	1 630	6 350
1985	3,900	1 185	4 625
1986	3,950	1 978	7 893
1987	4,350	1 878	8 165
1988	4,650	1 951	9 072
1989	4,600	1 932	8 890
1990	4,650	2 050	9 525

Table 30
DRY BEAN PRODUCTION*

	Area	Yield Per Acre	Production
	- acres -	- kg -	- tonnes -
1984	4,750	862	4 102
1985	7,700	862	6 650
1986	11,620	871	10 141
1987	22,600	767	17 345
1988	23,000	958	22 034
1989r	23,500	607	14 260
1990p	24,400	874	21 320

* Source: Alberta Agriculture Specialty Crop Historical Series.

Note: These estimates are on a field run basis and have not been adjusted for dockage.

Table 31
SUGAR BEET INDUSTRY

		1988	1989r	1990
Contracted	ac.	29,575	30,619	33,299
Planted	ac.	28,945	29,632	32,875
Harvested	ac.	28,109	29,483	32,664
Production	tonnes	540 405	499 061	590 215
Average Yield	kg/ac.	19 220	16 930	18 070
Market Price (beets)	$/tonne	37.33	45.19	39.50(e)
Sugar Content(1)	%	18.2	17.4	18.03
Sugar Produced	kg/tonne	133.4	128.1	141.4
Sugar Produced	kg/ac.	2 566	2 168	2 554

1 Factory sugar content (%).
(e) Estimate.

Table 32
COMMERCIAL VEGETABLE PRODUCTION

	Area (1)		Production	
	1989r	1990p	1989r	1990p
	- acres -		- tonnes -	
Cabbage	538	705	5 557	6 569
Carrots	985	747	5 937	7 084
Corn, fresh	3,178	3,509	13 067	14 857
Cucumbers	160	147	535	381
Onions	220	264	2 400	2 570
Rutabagas	131	153	1 188	1 079
Peas	3,052	3,070	4 402	4 993

1 Harvested acreage

r Revised
p Preliminary

LIVESTOCK INDUSTRY

INTRODUCTION

The spring of 1990 was cool and damp in most parts of the province, causing the pasture and hay growth to be delayed for the second consecutive year. Approximately 20 per cent of Alberta's producers anticipated livestock water shortages. The southern and eastern portions of the province had very dry pastures until early June, when rains in most areas alleviated the dry conditions. However, this wet weather pattern caused excess moisture in central and western portions of the province. By mid August several producers in the East Central Region were supplementing their pastured cows with hay, as the pastures were again drying out. The generally dry August caused feeding of cattle across much of the province to begin by late September, which is slightly earlier than normal. Calf weaning weights were light in the Southern Region, however, in most areas cattle came off the pastures in good condition.

In general, good quality hay and straw were available across the province. Feed grains were also considered to be of good quality. Due to the plentiful supply of livestock feed, interest remained high in livestock feeding.

CATTLE

On July 1, 1990 there were an estimated 4,310,000 head of cattle and calves on farms, a two per cent increase from one year earlier. Cows showed the largest increase in numbers at almost four per cent, resulting from the very large increase in replacement heifer numbers in 1989. Beef heifers for replacement and total calves also increased by two per cent each in 1990. The dairy herd population remained stable.

Slaughter of cattle in Alberta increased by three per cent between 1989 and 1990. The Cargill packing plant in High River which began operations in June of 1989 has significantly added to the provincial kill capacity.

Slaughter of cattle from Alberta in Canada increased by almost four per cent over the past year. The large increase in the size of the 1989 calf crop resulted in the higher slaughter numbers. Heifer slaughter in 1990 was over 11 percent higher than in 1989. This was due to the large increase in the number of heifers retained for breeding in 1989, which prevented heifer slaughter from increasing proportionately with total slaughter in that year. The largest decrease was in slaughter of cows, which dropped by almost 16 per cent. However, 1989 cow slaughter was abnormally high as producers marketed older cows which had been kept to take maximum benefit of the strong feeder calf market.

The strength of the American cattle feeding industry is shown by a 33 per cent increase in Alberta's out-of-province shipments of feeders and over seven per cent decrease in feeder imports from Saskatchewan. Saskatchewan increased their feeder cattle shipments to U.S.A. by over 300 percent from 1989 to 1990, or by 83,720 head, decreasing the number of feeders available for import to Alberta. Alberta has also increased shipments of feeders to the U.S.A. by over 600 percent since 1989, or by 35,557 head. This is the result of the U.S.A. entering an expansion phase in their cattle cycle. Feeder shipments from Alberta to Ontario continue to decline.

Total out-of-province shipments of replacement cattle dropped by 20 per cent from 1989 levels. International exports have decreased by 28 per cent, while the inter-provincial shipments have declined by 16 per cent.

In 1990 the U.S.A. recorded some of the highest slaughter cattle prices in history due to the limited domestic supply. This combined with the tight supply of fed cattle in Alberta due to increased fed cattle exports, reduced feeder imports, increased feeder exports, and an increase in 1990 slaughter volumes pushed Alberta's slaughter prices above 1989 levels.

Feeder cattle and calf prices also posted a large increase over those of 1989. The increased exports, and the decreased imports caused a tight local supply situation for feeder cattle as well as slaughter cattle. The premiums for light weight cattle were relatively small compared to previous years, as buyers showed a preference for heavier weight feeders. Feeder cattle and calf prices remained higher in the south than in the north. American demand and the large number of feedlots in the south both work to enhance the market prices closer to the U.S.A. - Canada border. However, due to the high Canadian dollar, the record high prices experienced in the U.S.A. in 1990 were not repeated in Canada, for feeder or slaughter cattle.

HOGS

Prices for hogs improved greatly in 1990 largely due to a strong U.S.A. market, which had record prices late in May. The high Canadian dollar, again, prevented record prices from being attained in Canada. However, the greatly improved prices pushed producers back into positive margins. The annual price for all classes of hogs in 1990 exceeded the 1989 prices. The price of index 100 hogs peaked at $81.19/100 pounds in June, or nearly $20/100 pounds higher than the previous June. However, the mid - 1988 to mid - 1989 prices were among the worst prices for hogs since the 1970's.

The number of hogs on farms in 1990 decreased relative to July 1, 1989, by two percent. Hogs of Alberta origin slaughtered within Canada increased in number by almost nine percent while international exports, through the Alberta Pork Producers Development Corporation, decreased by 76 percent. Total exports, as estimated by Statistics Canada decreased by 48 percent, resulting in a three percent decrease in total production of slaughter hogs in Alberta between 1989 and 1990.

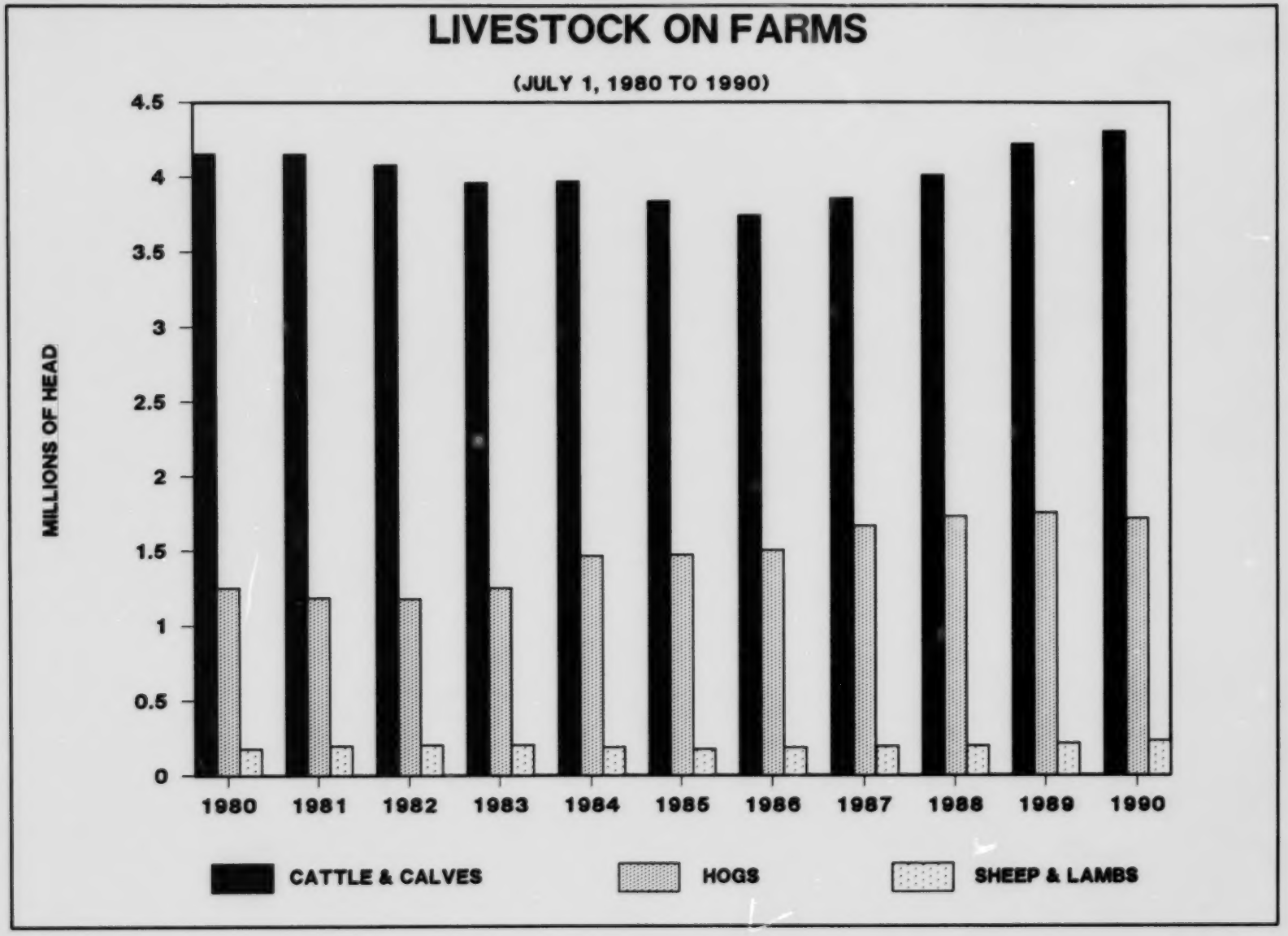
The year 1990 saw a more stable domestic pork processing industry, than has been seen in the last few years. This resulted with an increase in inspected provincial slaughter of 18 percent over 1989 levels.

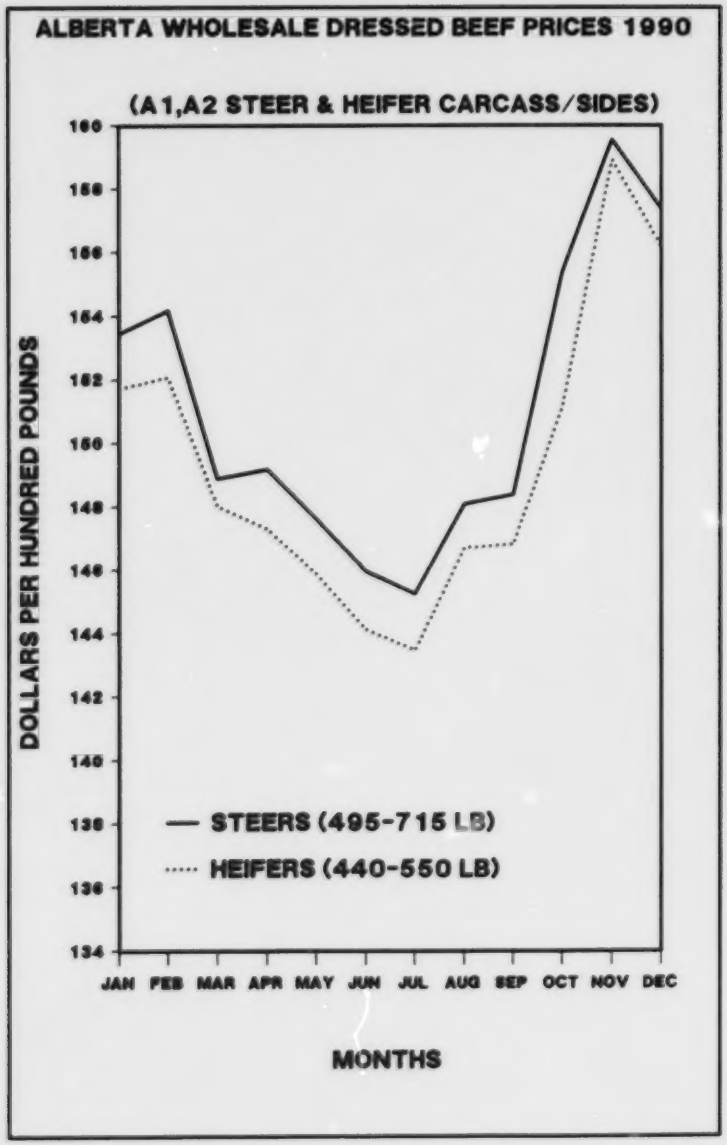
SHEEP

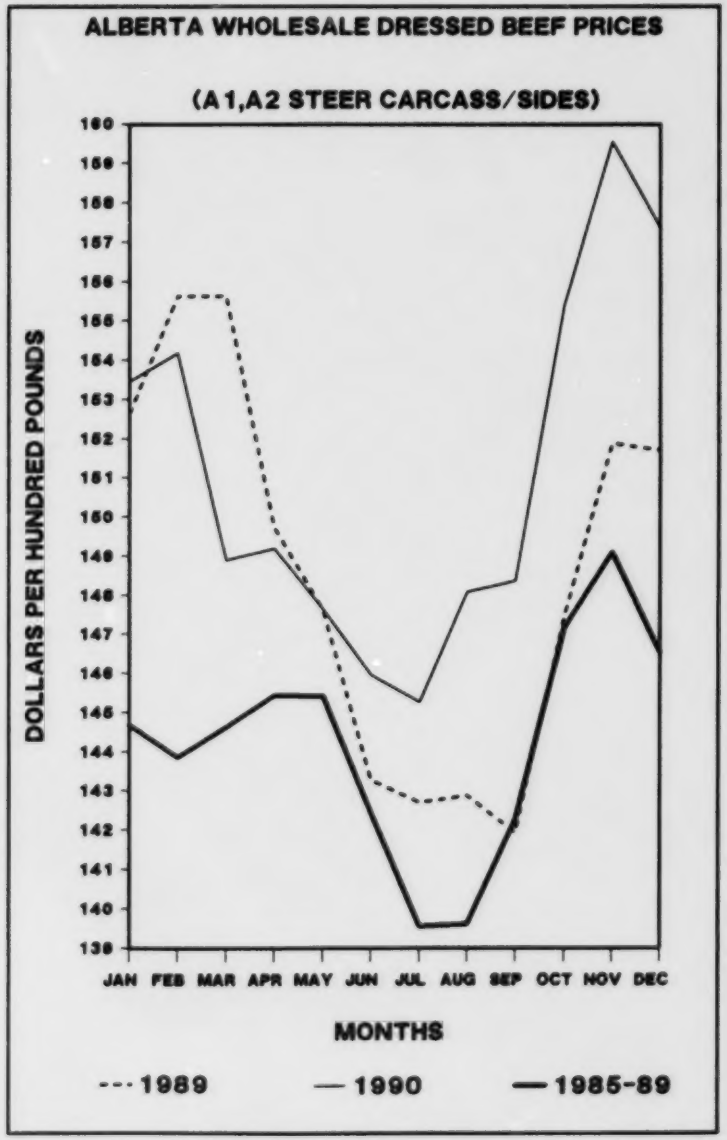
Alberta's July 1, 1990 sheep inventory estimates reflect a very substantial ten percent increase from the July 1, 1989 estimate. Lamb inventories have increased more than breeding stock inventories.

The number of sheep and lambs of Alberta origin slaughtered in Canada remained stable from 1989 to 1990. However, lamb slaughter was down one per cent from 1989, whereas sheep slaughter was up 11 percent. This indicates relatively heavy culling and replacement may be occurring. Slaughter animal exports to the U.S.A. increased by 59 percent, resulting in total production increasing by over eight percent. Inspected slaughter within Alberta decreased by four percent.

Lamb and sheep prices in 1990 continued the decline which began in 1988, fuelled by over supply in the U.S.A. and in Canada. The prices seen in 1990 are the lowest of the last decade. Prices fell throughout the year, except for the period from March until May, during the seasonal Easter price rally. The annual average price for A and B 80 - plus pound lambs fell almost 15 percent between 1989 and 1990. Feeder lambs saw the largest drop in price, at 23 percent.


LIVESTOCK ON FARMS
(JULY 1, 1980 TO 1990)
MILLIONS OF HEAD
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
CATTLE & CALVES
HOGS
SHEEP & LAMBS


ALBERTA WHOLESALE DRESSED BEEF PRICES 1990
(A1,A2 STEER & HEIFER CARCASS/SIDES)
DOLLARS PER HUNDRED POUNDS
160
158
156
154
152
150
148
146
144
142
140
138
136
134
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
MONTHS
STEERS (495-715 LB)
HEIFERS (440-550 LB)


ALBERTA WHOLESALE DRESSED BEEF PRICES
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DOLLARS PER HUNDRED POUNDS
160
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140
139
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
MONTHS
1989
1990
1985-89

Table 33
ALBERTA DIRECT TO PACKER SALES

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Year
						1989							
Steers - Live Sales:													
No. Sold	11,879	11,271	15,954	24,438	37,728	34,741	33,931	32,004	43,566	24,912	26,506	31,285	328,215
Price ($/100 lbs)	83.23	85.85	87.06	83.78	81.36	77.97	78.53	80.01	79.00	81.73	83.29	83.76	81.36
Heifers - Live Sales:													
No. Sold	5,692	4,684	8,473	12,519	12,999	10,650	9,929	8,088	11,774	10,622	10,025	11,203	116,658
Price ($/100 lbs)	79.70	80.88	84.43	81.37	79.59	76.37	77.24	79.36	79.07	81.28	81.16	81.09	80.06
Steers - Railgrade:													
No. Sold	1,444	1,659	7,195	9,016	10,904	4,557	3,869	3,139	3,645	3,575	4,090	2,876	55,969
Price ($/100 lbs)	147.64	151.16	151.01	141.27	138.54	133.52	135.16	138.13	136.21	141.96	144.93	146.85	141.49
Heifers - Railgrade:													
No. Sold	1,566	2,366	3,158	2,892	1,305	1,202	1,004	883	1,866	1,509	2,323	3,505	23,579
Price ($/100 lbs)	143.02	146.51	149.47	142.26	137.72	132.45	134.79	137.49	137.62	142.29	143.09	143.97	142.42
						1990							
Steers - Live Sales:													
No. Sold	28,146	20,237	26,896	26,696	41,591	41,155	29,716	27,175	36,041	23,538	24,906	28,044	354,141
Price ($/100 lbs)	85.14	86.37	85.56	85.07	82.92	81.83	81.74	82.36	82.58	86.57	88.17	87.01	84.26
Heifers - Live Sales:													
No. Sold	10,087	14,827	16,508	14,107	16,529	16,080	8,694	12,810	18,264	12,768	14,393	11,688	166,755
Price ($/100 lbs)	82.32	83.51	82.12	82.64	80.91	80.12	80.00	81.37	82.55	86.28	86.64	85.36	82.79
Steers - Railgrade:													
No. Sold	1,885	1,694	8,076	8,845	5,493	3,306	4,338	5,094	3,718	3,073	3,122	2,726	51,370
Price ($/100 lbs)	148.28	149.89	147.63	144.58	140.47	138.83	139.47	140.58	140.02	149.89	152.96	151.75	144.60
Heifers - Railgrade:													
No. Sold	2,052	2,544	4,966	2,552	1,866	900	1,300	1,804	2,423	1,423	1,949	2,704	26,483
Price ($/100 lbs)	146.08	148.00	145.17	143.23	138.95	138.19	138.46	140.37	141.99	149.96	152.46	148.82	144.84

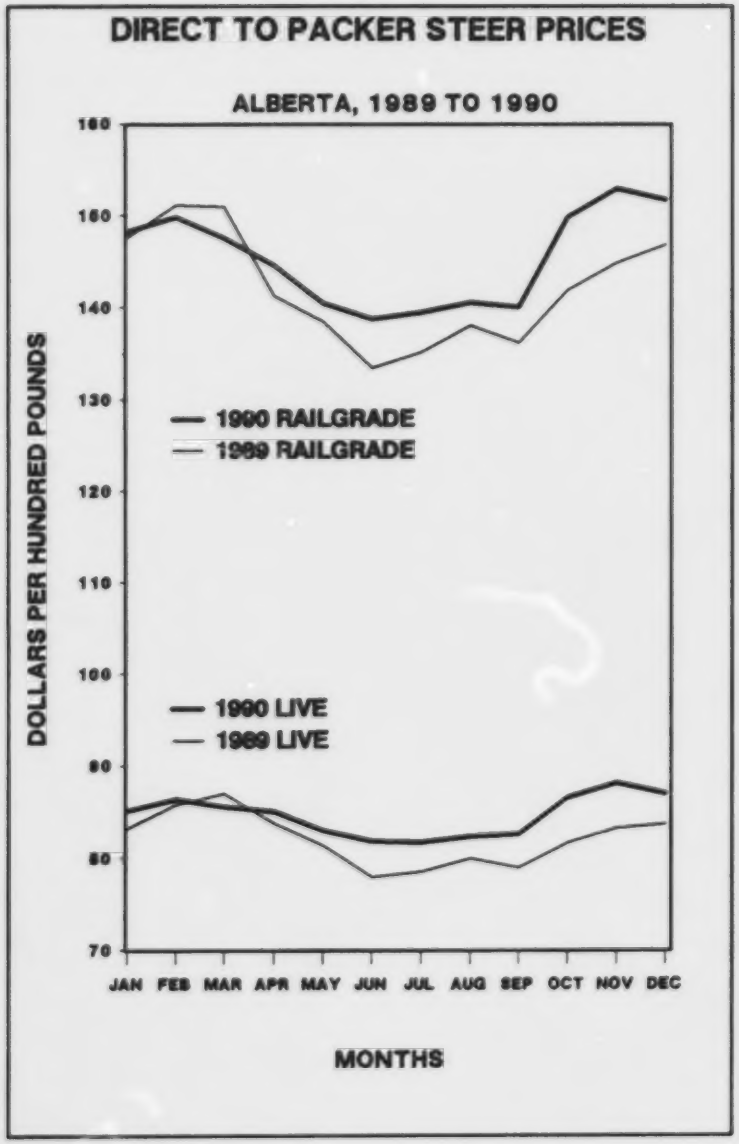


Table 34
SUPPLY AND DISPOSITION BALANCE SHEETS
JULY 1, 1989 TO JUNE 30, 1990

	Cattle & Calves	Pigs	Sheep & Lambs
	- thousands of head -		
Beginning Inventory	4,225.0	1,760.0	212.0
Births(1)	1,621.8	2,536.5	151.1
Interprovincial Imports(2)	441.9	0.0	0.2
International Imports	1.1	0.0	13.6
TOTAL SUPPLY	6,289.8	4,296.5	376.9
Interprovincial Exports(2)	102.1	0.0	4.0
International Exports	270.6	384.0	12.8
Inspected Slaughter(3)	1,414.7	1,998.6	81.5
All Other Slaughter	28.7	100.4	18.7
Deaths(4)	163.7	93.5	26.9
TOTAL DISPOSITION	1,979.8	2,576.5	143.9
ENDING INVENTORY(5)	4,310.0	1,720.0	233.0

1 For pigs, births have been adjusted for peri-natal mortality.
2 Interprovincial imports and exports of feeder animals only.
3 Animals slaughtered in federally and provincially inspected plants adjusted for interprovincial movements.
4 Deaths include on-farm mortality and condemnations at slaughter.
5 Total supply less total disposition.

Table 35
CATTLE AND CALVES ON FARMS, JULY 1

1989r

Census Division	Bulls	Milk Cows	Dairy Heifers	Beef Cows	Beef Heifers For Breeding	Calves	Heifers For Slaughter	Steers	Total
				- thousands -					
1	4.6	2.3	1.4	65.7	14.0	63.3	10.8	15.1	177.1
2	5.7	15.5	7.3	98.2	17.6	104.6	62.4	100.4	411.8
3	6.5	6.2	2.7	105.6	20.3	100.0	22.7	35.5	299.5
4	6.5	1.3	0.3	109.3	21.9	103.7	12.7	15.3	271.0
5	5.5	4.0	1.8	68.6	9.9	68.3	18.8	37.6	214.5
6 & 15	9.2	7.8	4.3	125.3	24.8	122.1	26.8	37.1	357.3
7	9.2	4.6	1.7	134.3	22.3	128.1	18.6	43.6	362.3
8 & 9	9.3	18.9	8.0	156.8	33.4	163.8	36.2	71.8	498.6
10	8.8	12.8	4.5	143.6	31.1	142.0	13.1	40.8	396.7
11	7.6	30.8	11.8	119.9	30.0	130.7	18.2	29.2	378.2
12 & 16	4.2	3.2	1.2	79.2	16.3	71.4	6.8	17.5	199.7
13 & 14	8.5	11.3	6.0	164.0	36.7	157.0	22.6	37.4	443.4
17,18,19	5.4	4.3	2.0	84.5	19.7	80.0	5.3	13.7	214.9
Province	91.0	123.0	53.0	1,455.0	298.0	1,435.0	275.0	495.0	4,225.0

Note: These inventory estimates are subject to revision.

Table 35 (cont'd)
CATTLE AND CALVES ON FARMS, JULY 1

1990

Census Division	Bulls	Milk Cows	Dairy Heifers	Beef Cows	Beef Heifers For Breeding	Calves	Heifers For Slaughter	Steers	Total	1990 as % 1989
					- thousands -					- % -
1	4.8	2.2	1.2	70.0	13.5	66.7	7.6	24.1	190.1	107.3
2	5.5	15.8	7.5	100.6	25.7	98.0	64.0	113.8	430.9	104.6
3	6.7	5.7	3.0	118.1	20.7	108.7	28.9	26.2	318.0	106.2
4	6.6	1.1	0.2	110.1	21.4	105.0	10.0	15.8	270.2	99.7
5	5.2	3.7	1.9	72.0	10.1	71.6	21.2	56.9	242.6	113.1
6 & 15	9.9	7.5	3.5	124.1	24.0	120.9	21.7	33.8	345.4	96.7
7	9.1	5.0	1.6	140.5	22.0	133.4	22.1	34.2	367.9	101.5
8 & 9	8.9	20.1	8.9	147.4	33.0	155.9	35.6	60.4	470.2	94.3
10	8.8	11.9	4.9	142.1	36.7	142.5	15.7	32.9	395.5	99.7
11	7.0	32.9	11.6	116.6	27.6	132.0	13.2	33.1	374.0	98.9
12 & 16	4.4	3.1	1.1	85.4	16.3	76.0	5.4	12.8	204.5	102.4
13 & 14	9.3	9.8	5.0	179.9	35.5	167.8	26.0	38.2	471.5	106.3
17, 18, 19	5.8	4.2	1.6	93.2	18.5	86.5	3.6	15.8	229.2	106.7
Province	92.0	123.0	52.0	1,500.0	305.0	1,465.0	275.0	498.0	4,310.0	102.0

Note: These inventory estimates are subject to revision.

Table 36
SLAUGHTER CATTLE AND CALF MARKETINGS

1989

Month	Steer	Heifers	Cows	Bulls	Total Cattle	Calves	Total Cattle & Calves
			- number of head -				
January	41,198	29,039	17,395	700	88,332	593	88,925
February	36,739	30,440	16,212	662	84,053	553	84,606
March	53,322	33,326	19,143	970	106,761	590	107,351
April	57,618	29,214	17,095	1,050	104,977	404	105,381
May	61,549	27,334	14,791	1,084	104,758	437	105,195
June	80,811	32,788	20,114	1,625	135,338	572	135,910
July	68,670	27,145	12,193	1,060	109,068	373	109,441
August	65,664	28,624	10,359	837	105,484	321	105,805
September	79,920	36,928	14,909	1,281	133,038	714	133,752
October	59,323	30,251	17,592	808	107,974	538	108,512
November	56,240	33,910	22,730	969	113,849	532	114,381
December	61,978	38,524	31,353	962	132,817	638	133,455
Total	723,032	377,532	213,886	12,008	1,326,449	6,265	1,332,714

Note: These data represent cattle and calves of Alberta origin slaughtered in Alberta and other Canadian provinces.

Table 36 (cont'd)
SLAUGHTER CATTLE AND CALF MARKETINGS

1990

Month	Steer	Heifers	Cows	Bulls	Total Cattle	Calves	Total Cattle & Calves
			- number of head -				
January	50,154	33,058	18,727	789	102,728	452	103,180
February	50,516	37,038	15,589	798	103,941	454	104,395
March	68,465	45,461	15,617	1,136	130,679	436	131,115
April	55,546	33,713	11,848	821	101,928	289	102,217
May	71,227	32,826	11,872	903	116,828	358	117,186
June	94,891	39,148	15,909	1,083	151,031	484	151,515
July	68,662	26,035	9,706	867	105,270	487	105,757
August	66,110	33,064	10,567	821	110,562	382	110,944
September	78,371	42,377	14,994	998	136,740	406	137,146
October	52,956	29,938	15,137	953	98,984	533	99,517
November	54,361	32,450	18,455	757	106,023	508	106,531
December	55,510	35,361	21,503	607	112,981	593	113,574
Total	766,769	420,469	179,924	10,533	1,377,695	5,382	1,383,077

Note: These data represent cattle and calves of Alberta origin slaughtered in Alberta and other Canadian provinces.

Table 37
AVERAGE MONTHLY CATTLE PRICES, EDMONTON + NORTH

1989

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	- dollars per hundred pounds -												
Slaughter Cattle:													
Cows													
D1,2.....	53.28	53.12	53.84	53.90	54.30	56.48	58.83	59.79	57.37	55.95	51.26	52.77	55.12
D3.....	47.82	48.29	48.23	46.13	47.31	49.18	50.05	52.40	52.26	48.25	44.98	44.09	47.98
D4.....	47.20	48.00	48.52	46.60	44.32	47.14	48.90	51.39	51.83	44.00	41.11	42.13	47.30
Bulls.....	68.89	68.36	70.44	67.73	64.80	67.55	68.21	69.62	68.38	66.59	64.52	61.99	67.26
Feeders:													
Steers													
+900 lbs...	86.36	86.80	86.02	82.72	81.34	83.33	86.64	86.40	83.47	86.14	85.18	85.40	84.82
800-900 lbs	94.38	90.95	90.01	85.43	85.53	87.74	91.77	92.05	89.82	90.70	90.78	90.73	89.77
700-800 lbs	97.55	93.10	91.87	87.92	88.48	91.75	93.25	95.02	93.53	96.90	95.10	93.70	93.04
600-700 lbs	100.70	96.11	95.30	93.51	96.41	101.65	98.27	95.69	98.42	99.26	96.14	94.79	97.18
Off Type													
+600 lbs...	79.95	77.80	78.08	78.68	66.86	65.90	73.56	-	79.60	76.82	76.17	75.41	72.93
Heifers													
+800 lbs...	80.02	82.07	82.28	75.27	77.20	77.71	83.92	81.86	81.05	80.98	79.39	80.69	79.91
700-800 lbs	88.95	85.89	83.63	81.34	79.18	82.64	86.55	85.55	87.38	85.85	84.48	84.40	84.34
600-700 lbs	91.99	87.33	85.32	82.76	83.91	86.92	88.75	88.09	86.52	90.93	90.73	89.47	87.66
500-600 lbs	95.75	90.52	86.89	86.61	87.09	90.35	90.48	89.97	89.29	91.67	92.13	94.41	91.32
Off Type													
+500 lbs...	73.33	69.33	71.64	68.87	70.16	68.50	-	-	73.54	73.53	71.35	70.55	71.49
Cows.....	60.80	-	67.17	56.47	57.55	53.26	64.90	63.29	60.92	60.98	61.96	57.87	59.84

NOTE: Due to the limited data available, the price series for slaughter steers and heifers in the Edmonton and North public stockyards have been discontinued.

Table 37 (cont'd)
AVERAGE MONTHLY CATTLE PRICES, EDMONTON + NORTH

1990

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	- dollars per hundred pounds -												
Slaughter Cattle:													
Cows													
D1,2.....	55.58	59.48	59.77	59.34	58.15	61.00	64.02	62.86	59.06	55.10	53.01	53.27	57.87
D3.....	47.70	51.77	53.25	52.35	53.38	54.10	54.20	54.78	53.53	50.13	46.44	45.62	50.82
D4.....	47.11	52.88	53.64	53.02	48.62	49.09	55.73	54.24	52.38	51.42	47.98	43.92	50.98
Bulls.....	66.94	69.16	72.49	72.27	71.18	73.74	76.46	75.85	72.10	67.58	65.58	66.94	71.09
Feeders:													
Steers													
+900 lbs...	82.68	85.15	82.31	83.62	84.60	87.04	84.61	87.04	87.55	87.07	86.69	86.40	85.79
800-900 lbs	89.32	90.11	85.98	87.70	88.71	95.71	94.14	94.56	93.44	94.97	95.47	92.16	91.56
700-800 lbs	91.17	91.44	87.47	91.07	94.34	98.65	99.33	96.70	97.24	99.08	96.72	96.39	93.73
600-700 lbs	92.74	94.16	92.09	94.53	97.64	104.29	101.75	100.26	101.92	100.73	99.37	98.30	97.69
Off Type													
+600 lbs...	74.42	80.00	71.33	72.20	73.74	78.55	81.00	75.40	71.68	79.39	79.98	77.56	76.70
Heifers													
+800 lbs...	80.61	81.68	77.77	77.24	75.40	83.21	82.72	83.79	82.99	85.07	87.15	87.07	82.51
700-800 lbs	85.04	85.56	82.55	83.51	86.60	88.07	87.44	89.21	89.74	88.18	92.38	87.79	86.86
600-700 lbs	86.74	87.22	83.98	85.89	87.81	93.02	89.87	91.20	90.81	91.20	93.26	93.30	88.88
500-600 lbs	88.63	90.44	85.88	88.84	92.63	97.19	94.89	95.48	95.07	93.97	100.34	96.60	93.86
Off Type													
+500 lbs...	-	63.00	67.30	67.00	67.20	72.08	72.00	71.17	66.86	64.93	75.27	75.06	71.12
Cows.....	63.42	70.05	67.12	59.94	58.67	61.72	70.35	69.45	68.96	68.48	58.94	58.80	62.88

NOTE: Due to the limited data available, the price series for slaughter steers and heifers in the Edmonton and North public stockyards have been discontinued.

Table 38
AVERAGE MONTHLY CATTLE PRICES, CALGARY + SOUTH

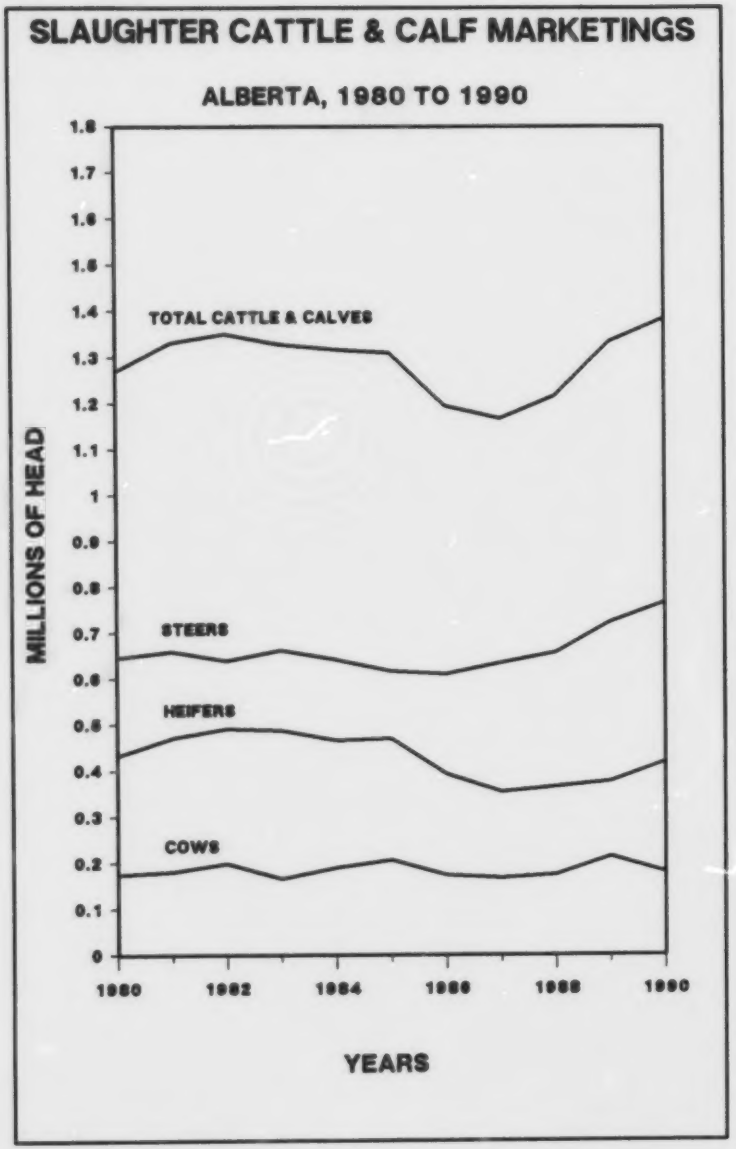
1989

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	- dollars per hundred pounds -												
Slaughter Cattle:													
Steers													
A1,2 +1000 lbs	79.75	84.17	85.60	81.25	84.75	76.25	78.37	79.80	78.14	80.50	83.00	-	80.58
A1,2 -1000 lbs	-	-	-	-	-	-	-	-	-	-	-	-	-
A3,4	-	82.75	79.25	-	72.50	76.25	-	-	-	-	80.00	81.17	78.47
B & C	66.25	71.28	69.00	78.36	66.91	70.40	69.34	66.20	73.73	68.83	-	69.65	70.32
Heifers													
A1,2 +850 lbs	78.38	82.08	84.86	-	81.76	75.62	77.50	77.83	77.04	78.86	80.25	-	78.62
A1,2 -850 lbs	-	-	-	-	-	-	-	-	-	-	-	-	-
A3,4	75.50	78.75	-	80.75	-	73.60	75.50	72.50	75.25	-	-	-	74.99
B & C	64.09	67.39	68.51	66.44	69.13	67.47	67.82	67.79	67.11	70.50	70.54	66.96	67.64
Cows													
D1,2	53.78	57.15	57.71	56.79	57.31	57.59	59.81	59.94	60.49	56.37	51.29	54.91	56.54
D3	48.84	51.60	51.32	51.04	52.03	52.21	54.82	54.85	54.56	51.76	45.98	49.80	51.09
D4	40.16	45.50	44.50	45.31	46.40	41.43	49.00	57.50	47.20	48.25	40.17	40.25	44.96
Bulls	67.07	67.50	68.45	65.55	66.19	67.19	68.14	70.09	68.03	68.05	60.42	62.41	66.77
Feeders:													
Steers													
+900 lbs	89.08	90.56	86.75	82.75	85.25	84.76	91.75	93.57	91.55	89.58	88.56	88.75	89.49
800-900 lbs .	93.71	97.20	89.32	88.48	86.82	89.18	93.92	94.20	93.15	93.01	94.05	90.95	92.81
700-800 lbs .	97.59	96.43	94.11	92.54	93.12	96.10	99.28	96.37	94.21	99.40	97.51	94.42	95.98
600-700 lbs .	100.43	103.23	98.71	101.14	99.73	100.46	104.86	97.94	100.78	105.00	102.23	100.07	102.71
Off Type													
+600 lbs	79.95	76.79	78.38	76.18	74.47	77.99	77.41	81.38	77.66	80.38	78.97	79.48	78.15
Heifers													
+800 lbs	84.82	84.69	84.21	82.97	84.00	84.03	87.94	91.79	88.52	90.37	81.72	84.59	87.15
700-800 lbs .	93.21	90.33	88.86	87.82	84.64	85.83	91.09	90.97	90.82	91.60	89.08	90.31	89.64
600-700 lbs .	96.04	93.85	92.16	92.75	88.23	88.73	94.00	93.62	90.70	96.24	94.49	93.81	93.40
500-600 lbs .	96.64	99.22	96.37	95.99	91.19	90.66	98.50	94.90	98.55	98.48	96.95	93.84	97.43
Off Type													
+500 lbs	69.84	74.85	72.03	72.54	70.76	68.59	75.32	69.38	72.43	78.53	79.96	74.08	74.12
Cows	51.09	54.08	54.84	52.52	54.73	56.98	55.88	55.80	57.36	54.88	52.27	55.87	53.94

Table 38 (cont'd)
AVERAGE MONTHLY CATTLE PRICES, CALGARY + SOUTH

1990

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	- dollars per hundred pounds -												
Slaughter Cattle:													
Steers													
A1,2 +1050 lbs	84.85	85.99	86.36	84.33	82.77	81.50	81.49	82.72	82.66	86.98	87.72	86.27	83.54
A1,2 -1050 lbs	-	-	-	-	-	-	-	-	-	-	-	-	-
A3,4	72.00	82.00	83.00	-	-	77.75	-	-	-	-	-	-	77.88
B & C	63.36	73.17	74.76	73.72	69.76	73.00	71.60	-	64.00	64.94	-	-	71.12
Heifers													
A1,2 +900 lbs	82.56	83.45	83.64	83.34	80.62	79.59	79.37	81.44	82.17	85.87	85.64	83.75	81.82
A1,2 -900 lbs	-	-	-	-	-	-	-	-	-	-	-	-	-
A3,4	-	76.83	-	80.75	-	-	-	-	-	-	-	-	78.14
B & C	67.04	67.53	70.26	68.65	58.71	67.29	65.92	60.94	64.07	64.75	62.50	57.13	66.42
Cows													
D1,2	55.97	59.93	61.97	61.85	60.00	62.77	64.93	64.91	61.98	54.63	53.28	54.89	59.44
D3	51.95	56.07	57.45	54.41	54.31	56.37	59.85	59.71	55.08	49.82	47.16	49.11	53.43
D4	46.80	46.50	46.50	49.08	48.25	49.31	52.25	56.00	46.00	41.30	40.83	41.17	45.02
Bulls	69.37	72.16	71.49	71.59	70.07	76.07	76.52	73.74	70.95	70.82	66.75	66.93	72.06
Feeders:													
Steers													
+900 lbs	85.93	85.96	82.75	85.81	84.24	87.64	93.05	91.65	90.65	88.24	85.35	87.83	89.48
800-900 lbs .	90.68	90.75	89.57	89.96	88.84	92.88	98.62	96.02	93.72	95.55	96.42	95.95	94.09
700-800 lbs .	97.69	92.59	93.05	94.59	95.19	97.72	99.60	99.27	98.62	100.06	100.38	100.41	96.84
600-700 lbs .	95.74	95.77	96.31	102.44	101.84	106.21	108.68	106.05	104.36	103.34	105.10	102.89	102.58
Off Type													
+600 lbs	78.46	80.35	79.58	81.37	78.08	79.77	75.15	78.54	82.64	84.56	83.73	79.70	81.08
Heifers													
+800 lbs	83.26	83.19	87.48	84.02	85.67	84.96	87.11	89.43	90.45	89.81	86.38	88.84	87.93
700-800 lbs .	89.51	88.10	89.66	89.15	87.72	91.50	90.10	92.56	92.10	93.29	91.79	92.08	90.90
600-700 lbs .	92.57	90.37	90.02	94.14	93.89	97.22	93.00	98.87	95.48	98.81	98.22	98.83	94.21
500-600 lbs .	93.85	94.43	93.39	97.63	96.97	101.13	100.00	92.33	98.87	101.53	100.93	100.64	99.62
Off Type													
+500 lbs	75.30	76.69	75.94	74.61	75.91	79.24	74.71	76.81	77.93	82.03	80.29	81.04	77.99
Cows	57.48	58.25	59.38	67.91	67.60	60.68	65.26	69.27	65.28	53.07	57.92	57.27	59.22


SLAUGHTER CATTLE & CALF MARKETINGS
ALBERTA, 1980 TO 1990
MILLIONS OF HEAD
TOTAL CATTLE & CALVES
STEERS
HEIFERS
COWS
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1980
1982
1984
1986
1988
1990
YEARS

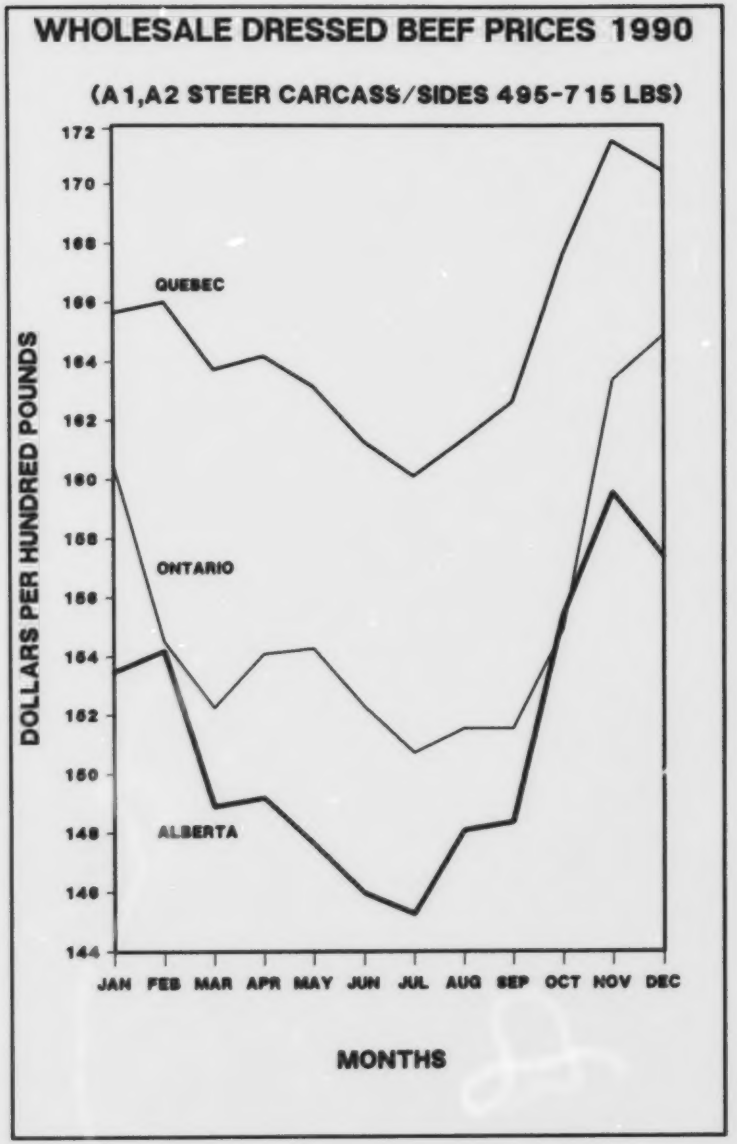

WHOLESALE DRESSED BEEF PRICES 1990
(A1,A2 STEER CARCASS/SIDES 495-715 LBS)
DOLLARS PER HUNDRED POUNDS
QUEBEC
ONTARIO
ALBERTA
172
170
168
166
164
162
160
158
156
154
152
150
148
146
144
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
MONTHS

Table 39
AVERAGE MONTHLY CALF PRICES, CALGARY + SOUTH

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Year
						- dollars per hundred pounds -							
						1989							
Feeders:													
Steer Calves													
500-600 lbs	105.56	107.47	104.85	105.59	107.45	104.63	110.50	98.07	108.61	106.71	106.34	104.72	106.50
400-500 lbs	105.90	110.74	108.01	111.01	109.11	107.00	110.00	109.70	113.74	114.99	112.84	109.03	113.38
-400 lbs	118.63	110.50	113.43	112.13	113.00	128.25	117.38	121.21	115.94	117.76	117.03	112.08	117.20
Off Type													
-600 lbs	82.50	89.45	82.65	85.17	80.55	81.93	86.82	88.54	84.16	86.12	88.08	79.19	85.68
Heifer Calves													
400-500 lbs	99.99	101.99	100.50	99.66	95.38	92.14	98.00	100.96	101.83	102.08	99.90	96.35	100.98
300-400 lbs	111.84	105.50	103.26	103.38	101.00	112.33	111.45	116.03	105.88	104.65	101.69	98.31	104.95
-300 lbs	-	-	-	110.50	-	-	-	-	-	105.92	101.10	-	103.70
Off Type													
-500 lbs	84.20	89.77	87.08	84.88	82.50	80.79	82.18	86.56	87.82	83.23	80.49	76.96	82.90
						1990							
Feeders:													
Steer Calves													
500-600 lbs	102.87	104.37	105.68	106.50	107.38	108.98	102.22	106.47	109.39	107.34	107.42	106.77	107.29
400-500 lbs	107.23	110.19	108.49	108.59	107.88	113.79	108.42	117.96	117.27	115.39	113.02	115.26	113.71
-400 lbs	113.50	115.14	115.03	118.70	115.32	135.00	125.00	118.83	119.54	121.15	116.72	117.10	117.84
Off Type													
-600 lbs	88.33	89.98	85.43	83.98	82.58	80.42	92.72	90.42	92.48	95.08	91.81	91.41	90.96
Heifer Calves													
400-500 lbs	95.89	98.16	101.15	98.97	103.19	102.42	102.00	107.65	109.53	105.02	106.16	103.35	104.87
300-400 lbs	101.75	104.45	102.33	101.59	105.90	101.50	-	111.16	109.64	108.26	108.78	104.69	107.42
-300 lbs	-	108.50	112.63	-	-	-	105.00	112.00	111.86	109.40	107.72	110.50	109.38
Off Type													
-500 lbs	78.56	81.89	79.47	84.23	88.86	80.83	92.00	84.08	92.37	90.82	87.97	87.53	87.32

Table 40
AVERAGE MONTHLY CALF PRICES, EDMONTON + NORTH

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Year
						- dollars per hundred pounds -							
1989													
Feeders:													
Steer Calves													
500-600 lbs	108.26	101.89	99.66	101.24	104.75	105.59	104.69	97.14	104.57	106.71	103.82	102.90	104.66
400-500 lbs	113.29	108.73	104.60	106.40	107.55	105.28	107.46	106.36	108.72	110.75	106.02	106.73	108.33
-400 lbs	113.68	103.48	102.85	106.00	106.33	111.17	113.41	107.61	121.22	118.50	108.42	108.23	113.20
Off Type													
-600 lbs	-	-	77.94	-	90.26	90.69	-	-	87.43	90.62	72.00	72.00	82.85
Heifer Calves													
400-500 lbs	99.58	93.93	90.22	90.07	93.15	92.65	94.15	93.88	98.17	103.17	95.52	94.02	97.22
300-400 lbs	103.34	95.89	90.89	97.70	91.88	101.60	104.74	105.68	106.38	106.68	-	101.59	102.48
-300 lbs	120.43	97.93	88.33	-	89.00	-	117.00	-	118.08	-	-	-	106.37
Off Type													
-500 lbs	70.00	-	-	-	71.01	73.00	58.00	-	-	-	-	86.00	72.28
1990													
Feeders:													
Steer Calves													
500-600 lbs	100.31	104.24	99.57	100.72	105.55	109.59	107.57	105.61	104.96	101.32	103.22	107.13	103.09
400-500 lbs	108.00	110.49	106.59	104.97	109.35	114.72	112.17	113.55	109.02	106.75	107.90	109.89	108.17
-400 lbs	107.29	112.86	106.24	109.84	111.60	116.00	119.79	123.02	118.58	113.81	114.57	113.79	114.48
Off Type													
-600 lbs	-	72.00	-	86.89	86.38	-	95.00	88.00	86.97	86.04	92.61	93.31	89.62
Heifer Calves													
400-500 lbs	92.98	94.21	91.06	95.03	97.13	101.89	96.17	97.76	97.42	97.40	103.89	101.79	98.37
300-400 lbs	98.53	98.85	96.33	102.87	104.00	110.00	114.66	112.19	99.96	100.48	104.52	106.30	102.21
-300 lbs	113.42	-	-	-	-	-	124.50	111.25	109.04	111.32	108.12	-	110.38
Off Type													
-500 lbs	-	-	-	-	-	-	83.00	78.15	78.27	80.31	82.00	-	79.61

Table 41
BRAND INSPECTION RECORDS OF LIVE CATTLE AND CALF SHIPMENTS OUT-OF-PROVINCE

1989

	British Columbia	Saskatchewan	Manitoba	Ontario	Quebec	Maritimes	U.S.A.	Other	Total
				- number of head -					
Feeders:									
Bulls	151	478	0	14	1	0	55	13	712
Cows	746	1,217	0	46	13	0	7	0	2,029
Heifers	3,616	7,866	0	20,481	447	0	4,515	11	36,936
Steers	3,933	16,633	0	26,073	1,917	0	2,006	0	50,562
Calves	591	1,478	0	8,438	8	0	0	22	10,537
Yearlings	40	963	0	721	137	0	0	0	1,861
Total	9,077	28,635	0	55,773	2,523	0	6,583	46	102,637
Slaughter:									
Bulls	4,967	10,460	107	1,821	0	0	2,932	0	20,287
Cows	4,293	23,684	0	316	0	0	9,600	0	37,893
Heifers	435	6,077	0	5,909	0	0	86,305	0	98,726
Steers	1,165	21,458	0	17,229	687	0	104,887	0	145,426
Calves	6	15	0	48	0	0	0	0	69
Yearlings	0	0	0	82	0	0	9	0	91
Total	10,866	61,694	107	25,405	687	0	203,733	0	302,492
Replacement:									
Bulls	612	297	24	65	11	5	2,945	827	4,786
Cows	2,443	1,881	67	158	3	2	296	119	4,969
Heifers	2,085	943	33	356	20	4	337	1,868	5,646
Calves	1,039	984	25	45	5	0	219	106	2,423
Total	6,179	4,105	149	624	39	11	3,797	2,920	17,824
All Classes	26,122	94,434	256	81,802	3,249	11	214,113	2,966	422,953

Table 41 (cont'd)
BRAND INSPECTION RECORDS OF LIVE CATTLE AND CALF SHIPMENTS OUT-OF-PROVINCE

1990

	British Columbia	Saskatchewan	Manitoba	Ontario	Quebec	Maritimes	U.S.A.	Other	Total
				- number of head -					
Feeders:									
Bulls	198	368	0	20	0	0	132	3	721
Cows	1,032	551	0	204	0	0	71	0	1,858
Heifers	2,114	17,619	163	12,784	0	0	25,996	646	59,322
Steers	5,118	13,425	30	26,601	1,247	0	15,372	0	61,793
Calves	434	2,555	61	8,015	0	0	540	0	11,605
Yearlings	74	654	0	698	160	0	29	0	1,615
Total	8,970	35,172	254	48,322	1,407	0	42,140	649	136,914
Slaughter:									
Bulls	5,248	5,203	102	0	0	0	10,426	0	20,979
Cows	9,315	16,248	0	617	0	0	24,343	0	50,523
Heifers	950	5,972	0	3,301	0	0	97,458	0	107,681
Steers	2,212	20,094	70	6,776	0	0	98,814	0	127,966
Calves	0	20	0	82	0	0	13	0	115
Yearlings	54	49	0	0	0	0	27	0	130
Total	17,779	47,586	172	10,776	0	0	231,081	0	307,394
Replacement:									
Bulls	657	316	24	45	2	0	1,321	415	2,780
Cows	2,194	1,610	63	306	14	0	245	139	4,571
Heifers	1,496	567	112	279	15	2	1,253	1,270	4,994
Calves	921	538	14	161	4	0	112	107	1,857
Total	5,268	3,031	213	791	35	2	2,931	1,931	14,202
All Classes	32,017	85,789	639	59,889	1,442	2	276,152	2,580	458,510

Table 42
HOGS ON FARMS, JULY 1

Census Division	Breeding Stock 6 Months & Over		All Other Pigs		Total Pigs		
	1989r	1990	1989r	1990	1989r	1990	1990 as % 1989
	- thousands -						- % -
1	5.5	5.7	49.0	46.9	54.5	52.6	96.5
2	25.6	23.8	219.2	218.5	244.8	242.3	99.0
3	7.8	8.2	69.6	71.7	77.4	79.9	103.2
4	4.5	4.6	34.3	36.1	38.8	40.7	104.9
5	16.5	16.6	148.0	144.0	164.5	160.6	97.6
6 & 15	11.8	11.3	83.2	85.2	95.0	96.5	101.6
7	9.6	10.3	75.4	78.7	85.0	89.0	104.7
8 & 9	38.2	38.7	289.7	287.6	327.9	326.3	99.5
10	19.5	19.5	165.0	151.1	184.5	170.6	92.5
11	18.6	17.7	160.0	134.8	178.6	152.5	85.4
12 & 16	9.3	8.6	73.0	73.7	82.3	82.3	100.0
13 & 14	18.7	18.9	143.2	143.0	161.9	161.9	100.0
17,18,19	7.4	7.1	57.4	57.7	64.8	64.8	100.0
Province	193.0	191.0	1,567.0	1,529.0	1,760.0	1,720.0	97.7

r Revised

Note: These inventory estimates are subject to revision.

Table 43
HOG MARKETINGS BY INDEX GRADING, 1990

Month	114 - 112	111 - 109	108 - 106	105 - 103	102 - 100	99-97	96-94	93-91	90-83	82	81
					-number-						
Jan.	6,014	15,071	37,599	28,085	26,297	12,398	6,036	2,813	3,462	1,487	1,638
Feb.	5,819	14,195	36,232	24,829	25,238	12,300	6,125	2,594	3,015	1,199	1,166
Mar.	11,442	26,006	59,756	38,322	38,292	17,974	8,721	3,694	4,417	1,854	1,680
Apr.	9,583	20,462	44,976	29,663	30,038	13,474	6,485	2,742	3,325	1,433	1,246
May	8,819	19,168	43,548	30,658	32,425	14,604	7,278	3,132	3,856	1,729	1,259
Jun.	11,311	24,321	54,602	37,336	41,976	18,697	9,849	4,252	5,289	2,473	1,832
Jul.	8,582	17,815	40,916	27,613	28,084	14,631	7,567	3,180	4,215	1,966	1,142
Aug.	8,533	18,055	41,990	28,162	27,976	14,029	7,191	3,066	3,665	1,572	940
Sept.	9,107	21,858	53,750	36,281	35,979	18,094	9,368	3,740	4,883	2,126	1,160
Oct.	8,825	19,875	45,590	28,838	28,657	13,074	6,471	2,734	3,336	1,550	1,295
Nov.	8,324	18,993	43,921	29,098	28,485	13,118	6,321	2,508	3,353	1,355	1,137
Dec.	10,001	21,881	48,440	31,954	30,433	13,379	6,322	2,500	3,138	1,246	1,018
Year	106,360	237,700	551,320	370,839	373,880	175,772	87,734	36,955	45,954	19,990	15,513

Table 43 (cont'd)
HOG MARKETINGS BY INDEX GRADING, 1990

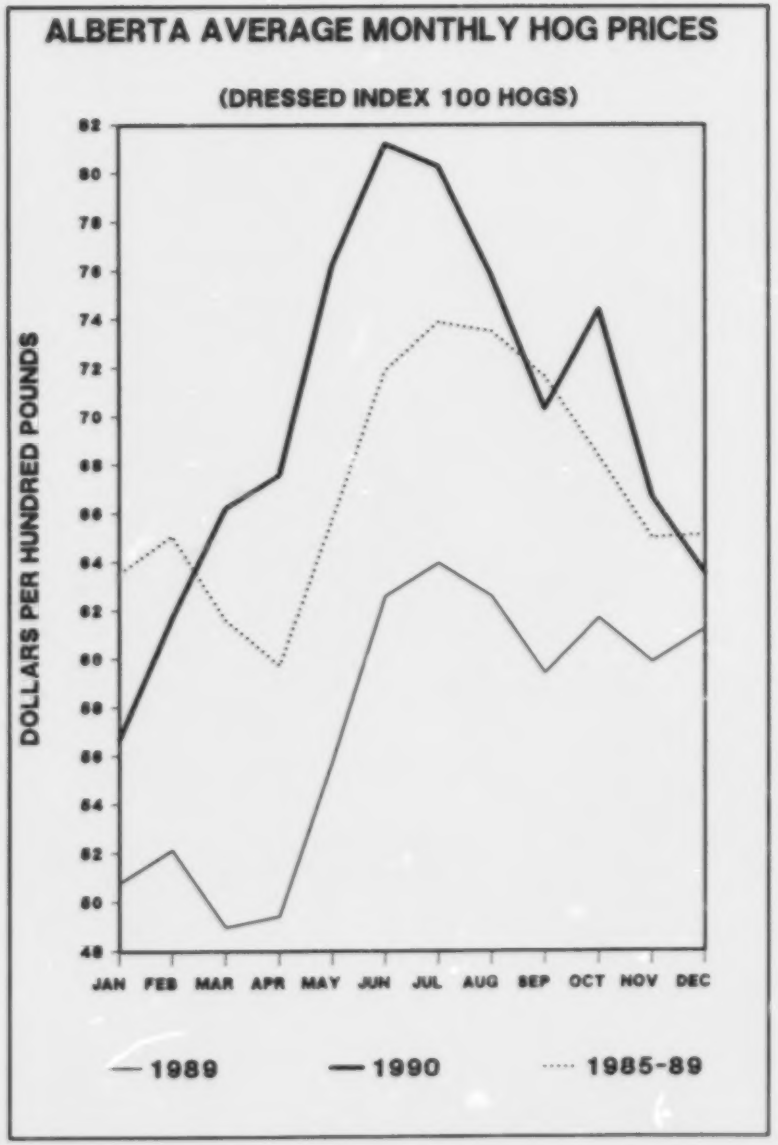
Month	80	Emaciated	Ridglings	Sows	Stags	Boars	Total Graded	Total Ungraded	Grand Total
				- number -					
Jan.	458	-	799	1,491	37	6	143,691	1,844	145,535
Feb.	481	2	704	684	5	14	134,602	1,676	136,278
Mar.	672	-	993	2,108	26	6	215,963	2,054	218,017
Apr.	482	-	701	1,093	20	3	165,726	1,352	167,078
May	506	-	766	826	8	5	168,587	1,145	169,732
Jun.	841	-	1,084	963	23	4	214,853	1,364	216,217
Jul.	502	-	811	416	18	6	157,464	1,100	158,564
Aug.	579	-	790	160	2	4	156,714	1,182	157,896
Sept.	611	10	1,010	168	3	5	198,153	1,641	199,794
Oct.	588	-	823	215	-	2	161,873	1,484	163,357
Nov.	446	-	822	169	2	3	158,055	1,860	159,915
Dec.	375	-	940	154	2	2	171,785	1,878	173,663
Year	6,541	12	10,243	8,447	146	60	2,047,466	18,580	2,066,046

Note: These data represent hogs of Alberta origin slaughtered in Alberta and other Canadian provinces.

Table 44
ALBERTA AVERAGE MONTHLY HOG PRICES

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Year
						1989							
						- dollars per hundred pounds -							
Index 100 Dressed*	50.80	52.16	48.99	49.44	55.79	62.60	63.96	62.60	59.42	61.69	59.87	61.24	57.15
Sows Dressed*	33.11	33.57	32.66	31.75	34.93	39.01	39.46	39.46	39.46	41.73	39.92	40.82	36.74
Sows Live**	26.31	26.31	26.76	25.40	26.31	28.58	28.12	29.48	29.94	32.21	31.30	30.84	28.50
Boars Live**	15.42	15.88	16.33	15.88	16.78	16.78	15.88	15.88	15.88	15.88	15.88	16.33	16.16
						- dollars per head -							
Feeders:**													
30-40 lbs	13.87	15.27	14.43	24.66	19.86	24.44	27.26	29.52	27.76	28.20	16.84	31.25	23.35
40-50 lbs	25.99	23.18	35.68	37.23	30.09	35.32	37.64	35.50	31.75	40.76	38.45	50.69	34.54
50-75 lbs	31.53	36.90	40.10	37.65	35.10	40.67	41.50	43.12	48.68	45.93	46.15	50.36	40.77
75-100 lbs	33.34	37.72	48.12	49.33	41.61	47.83	52.29	47.91	44.08	56.81	50.92	51.00	40.16
100 lbs +	40.97	37.97	55.10	59.11	40.60	59.12	57.93	61.50	60.90	64.32	58.31	55.25	53.66
						1990							
						- dollars per hundred pounds -							
Index 100 Dressed*	56.70	61.69	66.23	67.59	76.20	81.19	80.29	75.75	70.31	74.39	66.68	63.50	69.85
Sows Dressed*	39.46	41.28	44.91	45.81	49.44	56.70	56.25	60.78	56.25	59.87	57.15	52.16	49.90
Sows Live**	31.75	31.30	37.20	42.64	48.99	52.62	48.99	48.08	44.00	47.63	43.09	38.10	42.86
Boars Live**	15.88	15.88	16.33	24.04	35.83	53.07	48.08	47.63	42.64	45.36	41.28	36.74	35.23
						- dollars per head -							
Feeders:**													
30-40 lbs	34.64	29.32	34.66	36.00	46.23	38.83	36.11	33.48	34.31	36.61	43.44	34.73	36.53
40-50 lbs	42.46	40.18	49.00	47.41	51.94	55.88	46.92	45.63	47.84	49.86	51.27	53.02	48.45
50-75 lbs	53.11	53.68	56.00	57.81	61.15	64.16	56.77	53.16	58.65	57.19	59.37	65.38	58.04
75-100 lbs	60.56	55.14	65.81	65.46	68.77	75.44	61.16	64.42	63.86	65.11	62.13	69.53	64.78
100 lbs +	64.21	70.57	65.66	72.62	83.72	88.56	73.35	72.57	73.89	65.00	73.82	70.63	72.88

* Annual price is a weighted average from Livestock Market Review, Agriculture Canada
** Annual price is a straight average of Agriculture Canada's monthly prices recorded here.


ALBERTA AVERAGE MONTHLY HOG PRICES
(DRESSED INDEX 100 HOGS)
DOLLARS PER HUNDRED POUNDS
82
80
78
76
74
72
70
68
66
64
62
60
58
56
54
52
50
48
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
1989
1990
1985-89

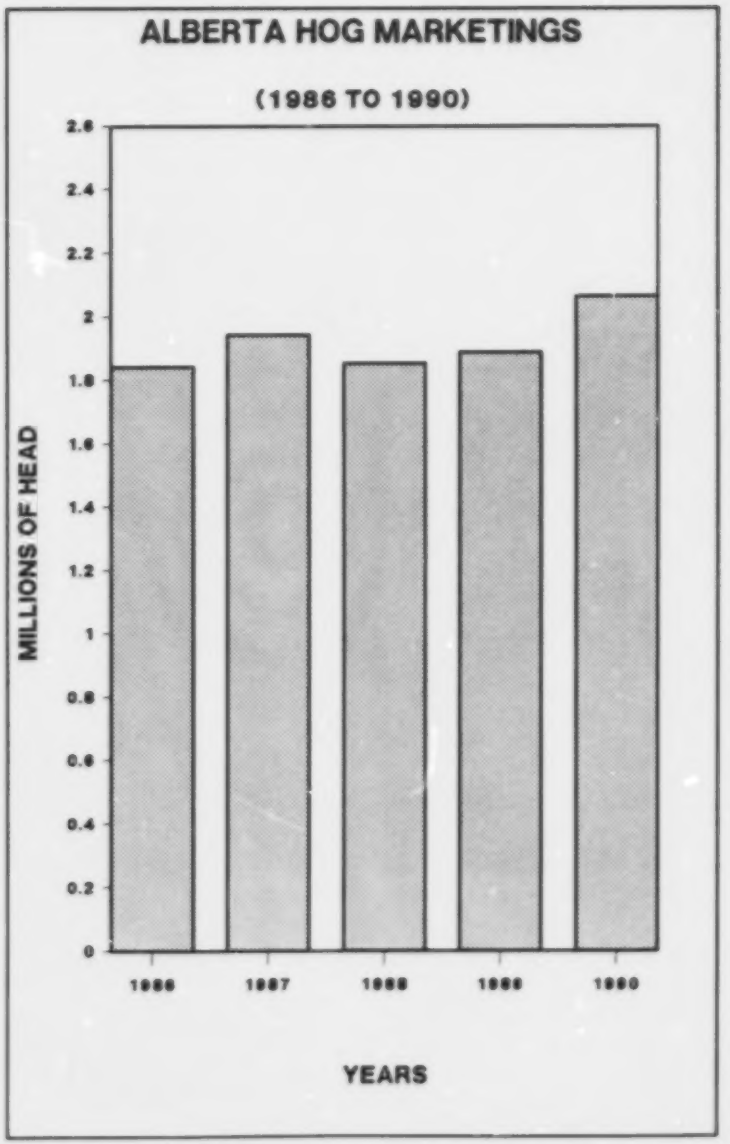

ALBERTA HOG MARKETINGS
(1986 TO 1990)
MILLIONS OF HEAD
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1986
1987
1988
1989
1990
YEARS

Table 45
SHEEP AND LAMBS ON FARMS, JULY 1*

ARA	One Year & Older		Under One Year		Total Sheep		
	1989r	1990	1989r	1990	1989r	1990	1990 as % 1989
	- thousands -						- % -
1	3.4	4.2	4.4	5.4	7.8	9.6	123.1
2	16.4	21.6	22.0	30.2	38.4	51.8	134.9
3	35.4	35.4	42.2	44.8	77.6	80.2	103.4
4	7.3	7.9	9.0	9.0	16.3	16.9	103.7
5	15.0	15.4	16.6	16.0	31.6	31.4	99.4
6	12.0	14.8	14.2	16.9	26.2	31.7	121.0
7	6.5	5.2	7.6	6.2	14.1	11.4	80.9
Province	96.0	104.5	116.0	128.5	212.0	233.0	109.9

r Revised

Note: These inventory estimates are subject to revision.

* - Due to the relatively small inventory of sheep in Alberta, estimates by census division will not be available again until the 1991 Census.

Table 46
SHEEP AND LAMB MARKETINGS

	1989			1990		
	Sheep	Lambs	Total	Sheep	Lambs	Total
	- number of head -			- number of head -		
January	88	3,119	3,207	144	4,701	4,845
February	141	3,355	3,496	87	4,499	4,586
March	273	4,554	4,827	200	4,862	5,062
April	536	2,337	2,873	335	2,639	2,974
May	489	4,795	5,284	605	3,864	4,469
June	808	7,282	8,090	634	6,588	7,222
July	643	5,756	6,399	1,599	4,374	5,973
August	423	5,696	6,119	684	5,344	6,028
September	515	7,899	8,414	480	7,628	8,108
October	360	5,293	5,653	281	5,763	6,044
November	281	5,257	5,538	181	5,514	5,695
December	287	8,051	8,338	147	7,032	7,179
Year	4,844	63,394	68,238	5,377	62,808	68,185

Note: These data represent sheep and lambs of Alberta origin slaughtered in Alberta and other Canadian provinces.

Table 47
AVERAGE MONTHLY SHEEP AND LAMB PRICES, EDMONTON + NORTH

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Year
	- dollars per hundred pounds -												
1989													
Lambs													
A & B +80 lbs	75.30	78.00	74.50	76.00	77.00	75.00	67.00	66.55	64.10	56.87	55.20	55.00	65.99
A & B -80 lbs	80.00	-	85.00	75.00	-	-	65.00	62.50	62.34	52.69	47.00	-	63.10
C +50 lbs	63.00	66.00	-	70.00	-	53.00	63.00	-	61.00	-	-	-	62.63
Feeders	90.00	85.00	91.93	89.00	84.00	85.03	77.00	73.56	70.69	68.00	58.52	63.00	73.57
Sheep													
D1,2	28.21	-	27.00	-	40.00	40.00	-	22.00	25.00	30.00	-	-	33.32
Lambco, Innisfail(1):													
Lambs:													
A & B 95-105 lbs ..	72.38	74.00	74.50	79.00	82.75	77.90	73.50	69.50	70.60	69.38	65.50	66.33	72.95
1990													
Lambs:													
A & B +80 lbs	66.88	65.00	71.58	68.58	63.19	68.52	58.29	54.92	47.99	49.50	44.95	49.81	56.43
A & B -80 lbs	62.80	70.00	-	-	-	61.00	57.14	-	40.00	-	38.11	43.00	53.19
C +50 lbs	-	-	-	-	-	-	-	40.00	67.99	43.75	-	-	60.31
Feeders	72.76	69.47	95.00	68.00	66.17	66.72	60.46	52.56	51.56	49.89	44.30	47.97	56.57
Sheep:													
D1,2	-	-	45.00	-	-	36.00	21.49	30.29	32.92	29.13	-	-	27.52
Lambco, Innisfail(1):													
Lambs:													
A & B 95-105 lbs ..	66.00	62.50	69.70	70.50	70.50	62.17	61.50	60.00	57.30	56.75	53.00	52.50	61.87

1 Simple average of A & B 95-105 lbs.

Table 48
LIVESTOCK ON FARMS, JULY 1*

Year	Milk Cows & Dairy Heifers	Beef Cows & Beef Heifers(1)	Calves	All Cattle	Hogs	Sheep and Lambs
			- thousands of head -			
1968	252.0	1,479.0	1,018.0	3,341.0	1,266.0	210.0
1969	232.0	1,478.0	989.0	3,286.0	1,187.0	180.0
1970	233.0	1,600.0	1,070.0	3,493.0	1,532.0	199.0
1971	223.6	1,721.3	1,157.3	3,702.1	1,739.1	244.9
1972	210.0	1,864.0	1,225.0	3,924.0	1,490.0	256.0
1973	205.0	2,031.0	1,319.0	4,201.0	1,499.0	241.0
1974	200.0	2,219.0	1,434.0	4,595.0	1,322.0	230.0
1975	193.0	2,242.0	1,458.0	4,689.0	873.0	209.0
1976	214.0	2,168.0	1,435.0	4,675.0	879.9	183.0
1977	210.0	2,078.0	1,315.0	4,350.0	944.3	146.5
1978	209.0	1,960.0	1,239.0	4,135.0	960.0	142.5
1979	215.0	1,925.0	1,205.0	4,080.0	1,130.0	153.5
1980	224.0	1,951.0	1,290.0	4,155.0	1,251.0	178.0
1981	220.5	1,936.0	1,300.0	4,153.0	1,185.0	198.0
1982	209.0	1,941.0	1,260.0	4,080.0	1,180.0	203.0
1983	194.0	1,905.0	1,235.0	3,965.0	1,255.0	202.0
1984	190.0	1,899.0	1,255.0	3,975.0	1,470.0	188.0
1985	181.0	1,831.0	1,245.0	3,840.0	1,475.0	175.0
1986	175.0	1,802.0	1,252.0	3,746.0	1,508.0	183.6
1987	178.0	1,837.0	1,280.0	3,860.0	1,670.0	194.0
1988	176.0	1,929.0	1,345.0	4,030.0	1,735.0	198.0
1989(2)	176.0	2,028.0	1,435.0	4,225.0	1,760.0	212.0
1990(2)	175.0	2,080.0	1,465.0	4,310.0	1,720.0	233.0

* Prior to 1975, estimates of livestock numbers were based on June 1 survey.
1 Beef heifers include heifers being raised for slaughter, and heifers for beef herd replacement.
2 1989 and 1990 numbers are subject to revision.

Table 49
LIVESTOCK SLAUGHTERED IN FEDERALLY AND PROVINCIALLY INSPECTED PACKING PLANTS

1989

	Steers	Heifers	Cows	Bulls	Total Cattle	Calves	Hogs	Sheep & Lambs
				- number of head -				
January	43,124	30,264	17,114	370	90,872	591	88,722	5,447
February	38,241	31,257	15,303	281	85,082	555	89,957	5,192
March	55,467	34,392	17,490	428	107,777	586	123,819	9,049
April	56,747	28,933	15,690	600	101,970	403	142,172	6,048
May	60,768	26,684	13,737	598	101,787	433	142,583	6,560
June	83,265	34,287	18,535	740	136,827	570	188,167	8,155
July	65,739	27,015	11,087	505	104,346	374	135,536	6,464
August	62,034	28,279	9,451	358	100,122	317	115,095	6,374
September	78,003	36,708	13,247	466	128,424	703	163,758	9,028
October	54,741	29,316	16,595	350	101,002	530	125,368	6,306
November	52,602	33,174	21,252	487	107,515	524	137,087	6,658
December	58,678	36,986	28,452	409	124,525	618	153,286	8,715
Year	709,409	377,295	197,953	5,592	1,290,249	6,204	1,605,550	83,996

Note: These data represent livestock slaughtered in Alberta under federal and provincial inspection, irrespective of their origin.

Table 49 (cont'd)
LIVESTOCK SLAUGHTERED IN FEDERALLY AND PROVINCIALLY INSPECTED PACKING PLANTS

1990

	Steers	Heifers	Cows	Bulls	Total Cattle	Calves	Hogs	Sheep & Lambs
	- number of head -							
January	47,754	32,157	17,043	318	97,272	448	130,100	5,929
February	48,308	36,367	12,895	284	97,854	445	116,967	5,924
March	66,284	44,219	13,825	471	124,799	413	197,753	7,843
April	55,365	33,642	11,003	298	100,308	282	152,982	7,805
May	69,414	32,631	10,749	435	113,229	357	156,960	6,246
June	93,050	38,796	14,955	598	147,399	480	198,879	7,197
July	67,314	25,808	9,399	415	102,936	484	146,643	5,924
August	62,584	32,414	10,389	406	105,793	373	146,985	6,010
September	74,476	41,367	14,382	586	130,811	390	185,960	8,225
October	,994	29,445	14,298	554	94,291	518	152,098	6,057
November	,332	32,288	18,171	361	104,152	487	150,196	5,793
December	54,423	35,139	20,794	250	110,606	590	161,333	7,394
Year	742,298	414,273	167,903	4,976	1,329,450	5,267	1,896,856	80,347

Note: These data represent livestock slaughtered in Alberta under federal and provincial inspection, irrespective of their origin.

Table 50
NATIONAL TRIPARTITE STABILIZATION PROGRAM - HOGS

COMPARISON OF HOG SALES BY REGION 1989-1990

Region	1989 Sales	%	No. of Prdcrs	%	1990 Sales	%	No. of Prdcrs	%	1990/89(%) Sales	1990/89(%) Prdcrs
1	561,441	24.0	483	11.1	539,267	24.1	447	11.6	-3.9	-7.5
2	353,371	15.1	498	11.5	369,033	16.5	445	11.6	4.4	-10.6
3	616,590	26.4	1,085	25.0	587,117	26.3	961	25.0	-4.8	-11.4
4	321,115	13.8	1,053	24.3	288,518	12.9	919	23.9	-10.2	-12.7
5	394,901	16.9	871	20.1	373,152	16.7	789	20.5	-5.5	-9.4
6	87,591	3.8	337	7.8	77,324	3.5	276	7.2	-11.7	-18.1
Unknown	69	0.0	5	0.1	124	0.0	3	0.1	79.7	-40.0
Province	2,335,078	100.0	4,332	100.0	2,234,535	100.0	3,840	100.0	-4.3	-11.4

COMPARISON OF HOG SALES BY SALES GROUP 1989-1990

Sales Group	1989 Sales	%	No. of Prdcrs	%	1990 Sales	%	No. of Prdcrs	%	1990/89(%) Sales	1990/89(%) Prdcrs
1-99	68,008	2.9	1,846	42.6	54,924	2.5	1,608	41.9	-19.2	-12.9
100-199	85,996	3.7	604	13.9	74,515	3.3	519	13.5	-13.4	-14.1
200-499	247,889	10.6	755	17.4	216,667	9.7	666	17.3	-12.6	-11.8
500-999	359,469	15.4	502	11.6	319,456	14.3	450	11.7	-11.1	-10.4
1,000-1,499	260,712	11.2	216	5.0	240,990	10.8	198	5.2	-7.6	-8.3
1,500-2,499	405,060	17.3	210	4.8	376,710	16.9	196	5.1	-7.0	-6.7
2,500-4,999	471,660	20.2	132	3.0	461,977	20.7	132	3.4	-2.1	0.0
5,000-7,499	321,358	13.8	53	1.2	296,479	13.3	49	1.3	-7.7	-7.5
7,500+	114,926	4.9	14	0.3	192,817	8.6	22	0.6	67.8	57.1
Province	2,335,078	100.0	4,332	100.0	2,234,535	100.0	3,840	100.0	-4.3	-11.4

Table 50 (cont'd)
NATIONAL TRIPARTITE STABILIZATION PROGRAM - HOGS

COMPARISON OF HOG SALES BY QUARTER 1989-1990

Quarter	1989 Sales	%	1990 Sales	%	1990/1989 %
1	566,357	24.3	617,826	27.6	9.1
2	586,269	25.1	572,401	25.6	-2.4
3	593,678	25.4	531,111	23.8	-10.5
4	588,773	25.2	513,197	23.0	-12.8
Province	2,335,077	100.0	2,234,535	100.0	-4.3

Table 51
NATIONAL TRIPARTITE STABILIZATION PROGRAM - SLAUGHTER CATTLE

COMPARISON OF SLAUGHTER CATTLE SALES BY QUARTER 1989-1990

Quarter	1989 Sales	%	1990 Sales	%	1990/1989 %
1	196,773	16.6	286,895	23.2	45.8
2	358,205	30.2	380,304	30.7	6.2
3	343,233	28.9	320,113	25.9	-6.7
4	288,557	24.3	250,248	20.2	-13.3
Province	1,186,768	100.0	1,237,561	100.0	4.3

Table 51 (cont'd)
NATIONAL TRIPARTITE STABILIZATION PROGRAM - SLAUGHTER CATTLE

COMPARISON OF SLAUGHTER CATTLE SALES BY REGION 1989-1990

Region	1989 Sales	%	No. of Prdcrs	%	1990 Sales	%	No. of Prdcrs	%	1990/89(%) Sales	1990/89(%) Prdcrs
1	538,677	45.4	1,058	26.5	547,909	44.3	1,069	27.7	1.7	1.0
2	280,059	23.6	923	23.1	323,921	26.2	905	23.5	15.7	-2.0
3	171,372	14.4	833	20.9	156,045	12.6	785	20.4	-8.9	-5.8
4	113,564	9.6	570	14.3	122,677	9.9	527	13.7	8.0	-7.5
5	72,401	6.1	454	11.4	75,513	6.1	429	11.1	4.3	-5.5
6	6,141	0.5	140	3.5	4,499	0.4	122	3.2	-26.7	-12.9
Unknown	4,557	0.4	13	0.3	6,998	0.6	19	0.5	53.6	46.2
Province	1,186,771	100.0	3,991	100.0	1,237,561	100.0	3,856	100.0	4.3	-3.4

COMPARISON OF SLAUGHTER CATTLE SALES BY SALES GROUP 1989-1990

Sales Group	1989 Sales	%	No. of Prdcrs	%	1990 Sales	%	No. of Prdcrs	%	1990/89(%) Sales	1990/89(%) Prdcrs
0-99	61,037	5.1	2,684	67.3	52,978	4.3	2,669	69.2	-13.2	-0.6
100-299	120,469	10.2	702	17.6	101,872	8.2	596	15.5	-15.4	-15.1
300-999	213,747	18.0	389	9.7	201,069	16.2	376	9.8	-5.9	-3.3
1,000-2,499	181,264	15.3	117	2.9	167,699	13.6	114	3.0	-7.5	-2.6
2,500-4,999	186,865	15.7	53	1.3	148,663	12.0	43	1.1	-20.4	-18.9
5,000-9,999	260,505	22.0	37	0.9	319,473	25.8	46	1.2	22.6	24.3
10,000+	162,881	13.7	9	0.2	245,809	19.9	12	0.3	50.9	33.3
Province	1,186,768	100.0	3,991	100.0	1,237,561	100.0	3,856	100.0	4.3	-3.4

Table 52
NATIONAL TRIPARTITE STABILIZATION PROGRAM - FEEDER CATTLE

COMPARISON OF FEEDER CATTLE SALES BY REGION 1989-1990

Region	1989 Sales	%	No. of Prdcrs	%	1990 Sales	%	No. of Prdcrs	%	1990/89(%) Sales	1990/89(%) Prdcrs
1	44,237	21.2	610	20.3	39,931	19.5	604	21.1	-9.7	-1.0
2	30,484	14.6	533	17.8	26,168	12.8	528	18.4	-14.2	-0.9
3	43,788	21.0	595	19.8	51,079	25.0	560	19.6	16.7	-5.9
4	33,182	15.9	574	19.1	31,676	15.5	519	18.1	-4.5	-9.6
5	44,270	21.2	485	16.2	47,511	23.2	474	16.6	7.1	-2.3
6	12,704	6.1	194	6.5	7,976	3.9	165	5.8	-37.2	-14.9
Unknown	296	0.1	9	0.3	279	0.1	14	0.5	-5.7	55.6
Province	208,961	100.0	3,000	100.0	204,519	100.0	2,864	100.0	-2.1	-4.5

COMPARISON OF FEEDER CATTLE SALES BY SALES GROUP 1989-1990

Sales Group	1989 Sales	%	No. of Prdcrs	%	1990 Sales	%	No. of Prdcrs	%	1990/89(%) Sales	1990/89(%) Prdcrs
0-99	48,450	23.2	2,463	82.1	43,844	21.4	2,366	82.6	-9.5	-3.9
100-299	68,057	32.6	411	13.7	62,432	30.5	383	13.4	-8.3	-6.8
300-999	51,972	24.9	108	3.6	45,327	22.2	95	3.3	-12.8	-12.0
1,000+	40,481	19.4	18	0.6	52,916	25.9	20	0.7	30.7	11.1
Province	208,960	100.0	3,000	100.0	204,519	100.0	2,864	100.0	-2.1	-4.5

COMPARISON OF FEEDER CATTLE SALES BY QUARTER 1989-1990

Quarter	1989 Sales	%	1990 Sales	%	1990/1989 %
1	45,846	21.9	68,271	33.4	48.9
2	84,471	40.4	58,264	28.5	-31.0
3	48,951	23.4	57,505	28.1	17.5
4	29,693	14.2	20,479	10.0	-31.0
Province	208,961	100.0	204,519	100.0	-2.1

Table 53
NATIONAL TRIPARTITE STABILIZATION PROGRAM - COW HERD

COW HERD INVENTORY PROFILE BY REGION 1989-1990

Region	Cows Rgd in 1989	%	Cows Rgd in 1990	%	1990/89 %	No. of Prdcrs in 1990	%
1	121,172	20.7	114,876	19.8	94.8	1,297	16.9
2	111,753	19.1	109,938	18.9	98.4	1,222	15.9
3	104,829	17.9	104,212	17.9	99.4	1,464	19.0
4	110,090	18.8	112,653	19.4	102.3	1,586	20.6
5	96,240	16.5	96,245	16.6	100.0	1,426	18.5
6	39,624	6.8	42,331	7.3	106.8	691	9.0
Unknown	527	0.1	492	0.1	93.4	7	0.1
Province	584,235	100.0	580,747	100.0	99.4	7,693	100.0

COW HERD INVENTORY PROFILE - ALL REGIONS 1989-1990

Size Group	Cows Rgd in 1989	%	Cows Rgd in 1990	%	1990/89 %	No. of Prdcrs in 1990	%
0-99	267,506	45.8	261,086	45.0	97.6	5,866	76.3
100-199	178,600	30.6	183,293	31.6	102.6	1,407	18.3
200-299	57,606	9.9	60,170	10.4	104.5	261	3.4
300-399	23,943	4.1	25,755	4.4	107.6	78	1.0
400-499	18,124	3.1	16,715	2.9	92.2	38	0.5
500+	38,456	6.6	33,728	5.8	87.7	43	0.6
Province	584,235	100.0	580,747	100.0	99.4	7,693	100.0

Table 54
NATIONAL TRIPARTITE STABILIZATION PROGRAM - EWE AND LAMB

EWE FLOCK INVENTORY BY SIZE GROUP

Size Group	No. of Ewes in 1989	%	No. of Ewes in 1990	%	1990/89 %	No. of Prdcrs in 1990	%
0-49	3,140	9.5	3,048	7.6	97.1	139	39.3
50-99	4,333	13.1	5,851	14.6	135.0	85	24.0
100-199	8,665	26.1	10,073	25.2	116.3	78	22.0
200-299	4,267	12.9	6,066	15.1	142.2	27	7.6
300-499	3,190	9.6	3,301	8.2	103.5	9	2.5
500+	9,564	28.8	11,707	29.2	122.4	16	4.5
Province	33,159	100.0	40,046	100	120.8	354	100

EWE FLOCK INVENTORY BY REGION

Size Group	No. of Ewes in 1989	%	No. of Ewes in 1990	%	1990/89 %	No. of Prdcrs in 1990	%
1	13,487	40.7	15,571	38.9	115.5	96	27.1
2	4,971	15.0	5,995	15.0	120.6	45	12.7
3	4,946	14.9	6,795	17.0	137.4	82	23.2
4	3,032	9.1	3,501	8.7	115.5	51	14.4
5	3,589	10.8	4,298	10.7	119.8	47	13.3
6	3,132	9.4	3,844	9.6	122.7	31	8.8
Unknown	2	0.0	42	0.1	2100.0	2	0.6

Table 54 (cont'd)
NATIONAL TRIPARTITE STABILIZATION PROGRAM - EWE AND LAMB

COMPARISON OF HOME-RAISED LAMB SALES BY SALES GROUP

Sales Group	1989 Sales	%	No. of Prdcrs in 1989	%	1990 Sales	%	No. of Prdcrs in 1990	%	1990/89(%) Sales	1990/89(%) Prdcrs
0-49	699	3.0	47	32.9	895	3.5	51	34.5	128.0	108.5
50-99	2,026	8.8	28	19.6	1,720	6.8	24	16.2	84.9	85.7
100-199	4,127	17.9	29	20.3	4,241	16.8	30	20.3	102.8	103.5
200-299	4,553	19.7	18	12.6	5,137	20.3	21	14.2	112.8	116.7
300-499	4,577	19.8	12	8.4	3,870	15.3	10	6.8	84.6	83.3
500+	7,091	30.7	9	6.3	9,393	37.2	12	8.1	132.4	133.3
Province	23,073	100.0	143	100.0	25,256	100	148	100	109.5	103.5

HOME-RAISED LAMBS BY REGION

Region	1989 Sales	%	No. of Prdcrs in 1989	%	1990 Sales	%	No. of Prdcrs in 1990	%	1990/89(%) Sales	1990/89(%) Prdcrs
1	11,286	48.9	40	28.0	10,720	42.5	38	25.7	95.0	95.0
2	2,516	10.9	19	13.3	3,013	11.9	19	12.8	119.8	100.0
3	3,629	15.7	35	24.5	3,604	14.3	35	23.7	99.3	100.0
4	2,482	10.8	21	14.7	3,202	12.7	23	15.5	129.0	109.5
5	2,133	9.2	20	14.0	3,106	12.3	21	14.2	145.6	105.0
6	1,027	4.5	7	4.9	1,199	4.8	10	6.8	116.8	142.9
Unknown	0	0.0	1	0.7	412	1.6	2	1.4	N/A	200.0
Province	23,073	100.0	143	100.0	25,256	100	148	100	109.5	103.5

HORSE INDUSTRY

The activity in the horse industry declined overall in 1990. The only two sectors which increased in the past year were pregnant mare urine value and volume of production and the total quantity of horse meat for export.

Horse meat exports increased by 16 per cent in 1990, however, their value actually declined by over six per cent due to lower prices. Export volumes to Europe, the principal destination for Alberta horse meat, increased by over 19 per cent from last year, while the value declined almost eight per cent. Exports to Japan also increased by ten per cent in volume, while falling two per cent in value.

Live horse exports increased by 18 per cent since 1989. Total inspected shipments of live horses decreased by eight per cent in the 1989 to 1990 period. The bulk of this decline was in slaughter horse shipments within Alberta. Feeder, replacement and slaughter animal shipments out of province have increased significantly, partially offsetting the decrease in slaughter animal movements.

The total number of breed registrations appear to have declined in 1990. However, the decrease is not as large as it appears due to incomplete processing of the thoroughbred registrations resulting from a system change. Estimated returns to producers from the sale of registered horses for 1990 is $15 million or almost equal to 1989 levels.

Pregnant mare urine (PMU) sales continue to increase for the third consecutive year, up 16 per cent in 1990. While the number of farms decreased, the number of mares increased by over three per cent.

Table 55
HORSE MEAT EXPORTS

Quantity

	1986	1987	1988	1989	1990
	- tonnes -				
Europe	7 030	7 508	8 195	7 240	8 635
Japan	3 388	4 087	3 190	4 312	4 722
U.S.A.	58	-	76	35	24
Other	-	79	571	493	636
Total	10 476	11 674	12 032	12 080	14 017

Value

	1986	1987	1988	1989	1990
	- $ '000 -				
Europe	18,595	26,032	31,498	24,942	23,016
Japan	8,387	10,855	9,335	9,921	9,680
U.S.A.	62	-	87	102	17
Other	-	101	544	487	535
Total	27,044	36,988	41,464	35,452	33,248

Table 56
BRAND INSPECTION RECORD OF LIVE ALBERTA HORSE SHIPMENTS BY DESTINATION

	1989r				1990			
	Alberta	Other Provinces	Export	Total	Alberta	Other Provinces	Export	Total
		- number of head -				- number of head -		
Feeders:								
Fillies	0	0	0	0	0	8	0	8
Geldings	4	0	1	5	0	19	0	19
Mares	6	0	0	6	0	22	0	22
Stallions	0	0	0	0	0	24	0	24
Colts	0	0	0	0	0	0	0	0
Total	10	0	1	11	0	73	0	73
Slaughter:								
Fillies	206	0	0	206	266	2	0	268
Geldings	3,609	81	16	3,706	3,195	135	16	3,346
Mares	4,848	135	36	5,019	4,298	137	10	4,445
Stallions	1,063	0	0	1,063	854	0	60	914
Colts	195	0	0	195	255	0	0	255
Total	9,921	216	52	10,189	8,868	274	86	9,228
Replacement:								
Fillies	0	0	1	1	0	1	0	1
Mares	0	0	2	2	0	36	2	38
Stallions	0	2	1	3	0	1	1	2
Colts	0	0	1	1	0	0	0	0
Total	0	2	5	7	0	38	3	41
Unclassified (1):								
Fillies	1	21	44	66	0	12	58	70
Geldings	15	957	505	1,477	9	761	475	1,245
Mares	27	394	210	631	11	352	325	688
Stallions	7	23	13	43	3	30	18	51
Colts	0	9	8	17	0	25	28	53
Total	50	1,404	780	2,234	23	1,180	904	2,107
All Classes	9,981	1,622	838	12,441	8,891	1,565	993	11,449

1 Prior to 1989 unclassified animals were included with feeders.
r Revised

Table 57
REGISTRATIONS AND SALES OF REGISTERED HORSES IN ALBERTA

	Registrations by Breed Associations					Ownership Transfers				
	1986	1987	1988r	1989r	1990	1986	1987	1988	1989	1990
	- number of head -					- number of head -				
Arabian	577	513	566	481	450	629	595	751	685	671
Appaloosa	306	365	352	366	393	330	354	252	293	299
Morgan	184	131	148	145	187	203	153	234	203	234
Quarter Horse	4,005	3,432	3,016	3,119	2,937	4,789	4,891	4,686	4,105	3,963
Standardbred	271	399	404	362	339	N/A	N/A	N/A	N/A	N/A
Thoroughbred	797	684	650	602	375(1)	N/A	N/A	N/A	N/A	N/A
Draft	267	284	329	271	285	302	386	316	399	347
Others	269	184	189	206	189	165	148	314	210	166
Total (2)	6,405	5,992	5,654	5,552	5,155	6,418	6,527	6,553	5,795	5,680

1 Thoroughbred registration incomplete due to system change.
2 Transfer totals do not include Standardbreds and Thoroughbreds.

N/A Data not available
r Revised

Table 58
PREGNANT MARE URINE STATISTICS

	Number of Mares	Number of Farms	Gross Revenue*
	- number -	- number -	- $ '000 -
1986/87	2,700	27	2,637
1987/88	2,650	27	2,578
1988/89	2,869	27	3,262
1989/90	3,297	27	3,846
1990/91	3,416	26	4,472

* Gross farm revenue from the sale of pregnant mare urine.

DAIRY INDUSTRY

There were an estimated 125,000 dairy cows on farms in Alberta at January 1, 1991. The definition of a dairy cow is any cow being kept for milk purposes which has calved at least once, irrespective of age.

Milk production during 1990-91 amounted to 619,306,000 litres, a decrease of four per cent from the previous year. The estimated farm value of milk production was $309 million dollars.

Creamery butter production totalled 7.4 million kilograms and cheddar cheese 7.5 million kilograms. Fluid milk sales decreased to 226.8 million litres from 243.0 million litres.

Table 59
DAIRY PRODUCER REGISTRATIONS

	Type of Producer			
	Fluid	Industrial	Cream	Total
1990	1,440	2	490	1,932
1991	1,402	0	396	1,798

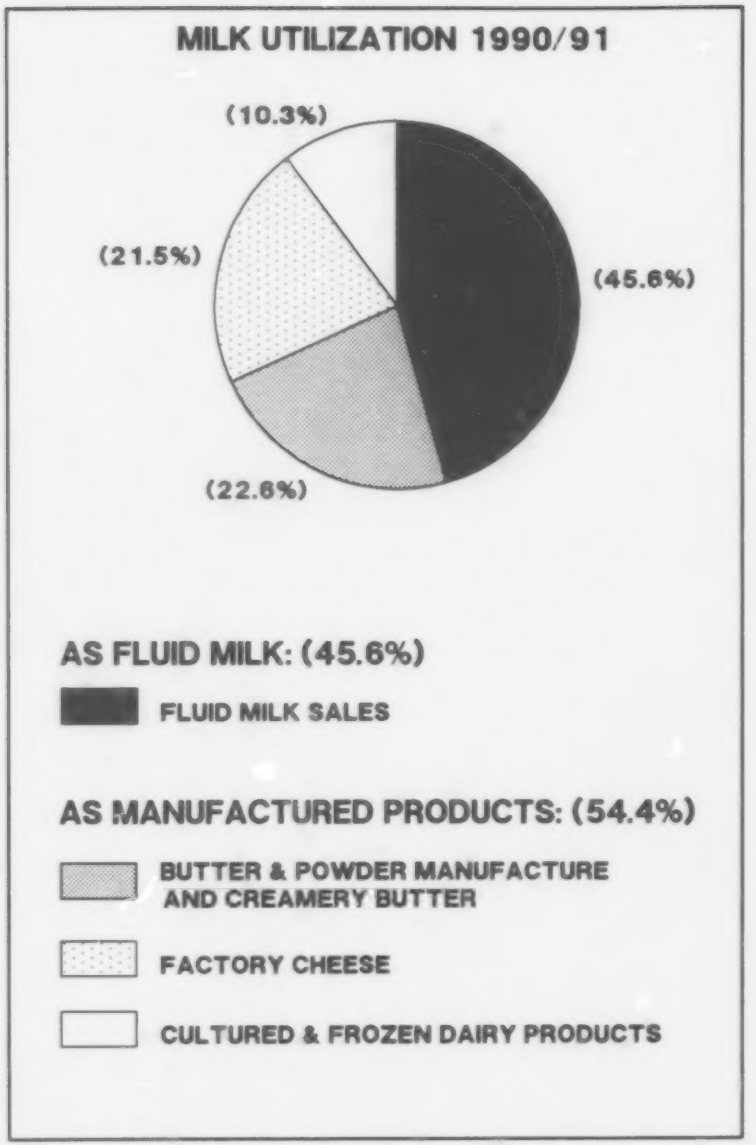


Table 60
MILK AND CREAM PRODUCTION IN KILOGRAMS OF BUTTERFAT

	Fluid Milk & Industrial Milk		Industrial Cream		Total	
	1988-89	1989-90	1988-89	1989-90	1988-89	1989-90
			- kilograms -			
August	1 760 806	1 747 349	67 120	53 575	1 827 926	1 800 924
September	1 661 214	1 636 240	56 229	41 611	1 717 443	1 677 851
October	1 664 075	1 650 610	45 088	37 301	1 709 163	1 687 911
November	1 595 151	1 581 010	37 635	29 012	1 632 786	1 610 022
December	1 687 569	1 677 422	33 593	22 335	1 721 162	1 699 757
January	1 730 013	1 739 063	33 585	25 462	1 763 598	1 764 525
February	1 579 229	1 601 987	33 258	23 125	1 612 487	1 625 112
March	1 769 738	1 810 673	39 446	27 976	1 809 184	1 838 649
April	1 744 562	1 787 857	38 730	31 300	1 783 292	1 819 157
May	1 851 859	1 895 513	49 685	40 655	1 901 544	1 936 168
June	1 812 515	1 855 718	53 964	42 073	1 866 479	1 897 791
July	1 812 885	1 867 686	45 320	41 388	1 858 205	1 909 074
Total	20 669 616	20 851 218	638 653	415 813	21 203 269	21 266 941

Table 61
PRODUCTION AND VALUE OF FACTORY DAIRY PRODUCTS

	Year*	Quantity	Price	Value
		- '000 -	- $ -	- $'000 -
Creamery Butter (kilograms)	1989-90	7 147	5.687 /kg	40,645
	1990-91	7 392	5.870 /kg	43,391
Cheddar Cheese (kilograms)	1989-90	7 057	6.400 /kg(r)	45,165
	1990-91	7 500	6.580 /kg	49,350
Variety Cheese (kilograms)	1989-90	5 588	7.160 /kg	40,010
	1990-91	5 423	8.510 /kg	46,150
Ice Cream (litres)(1)	1989-90	28 576	2.110 /litre	60,295
	1990-91	26 881	2.650 /litre	71,234
Fluid Milk Sales (litres)(2)	1989-90	243 028	0.866 /litre	210,462
	1990-91	226 838	0.890 /litre	201,886
Fluid Cream Sales (litres)	1989-90	10 334	1.750 /litre(r)	18,084
	1990-91	10 760	1.810 /litre	19,476
Fluid Buttermilk, Chocolate Milk and Eggnog (litres)	1989-90	18 125	0.925 /litre(r)	16,766
	1990-91	18 483	0.950 /litre	17,558
Miscellaneous Manufactured and Cultured Products(3)	1989-90	-	-	130,281
	1990-91	-	-	146,591
Total	1989-90	-	-	568,320
	1990-91	-	-	595,996

* April 1 - March 31

1 Includes hard and soft ice cream.
2 Skim milk has been included in fluid milk.
3 Includes concentrated milk products, cottage cheese, whey cheese, yoghurt and yoghurt mix (hard & soft).
r Revised

Table 62
FARM VALUE OF MILK PRODUCTION

	Year*	Milk Equivalent	Total Milk	Price	Value
		- '000 litres -	- % -	- $ -	- $'000 -
Milk Fat for Creamery Butter(1)	1989-90	10 365	1.56	4.640 /kg	2,116
	1990-91	10 149	1.64	4.850 /kg	2,165
Milk Purchased for the Manufacture of Powder and Butter(2)	1989-90	142 728	21.48	41.05 /hl	58,590
	1990-91	144 898	23.40	42.09 /hl	60,987
Milk for Cheesemaking	1989-90	144 156	21.69	41.09 /hl	59,247
	1990-91	126 737	20.46	42.47 /hl	53,825
Milk for Concentrating and Milk and Butterfat for Ice Cream and Miscellaneous Products(3)	1989-90	64 641	9.73	42.92 /hl	27,744
	1990-91	60 772	9.81	44.24 /hl	26,885
Milk Purchased for Fluid Purposes	1989-90(r)	271 487	43.34	52.82 /hl	143,399
	1990-91	267 616	43.21	54.01 /hl	144,539
Skimmilk kept on Farms	1989-90	14 649	2.20	20.64 /hl	3,024
	1990-91	9 134	1.48	10.00 /hl	913
Estimated Federal Subsidy	1989-90	-	-	-	18,445
	1990-91	-	-	-	17,906
Total	1989-90(r)	648 026	-	-	312,565
	1990-91	619 306	-	-	309,385

* April 1 - March 31

1 Recorded as Butterfat for Creamery Butter in 1988 and prior.
2 Includes milk used for the making of cottage cheese.
3 Does not include butterfat from creamery butter used in the manufacture of ice cream.
r Revised

POULTRY AND EGGS

Egg prices for the first half of 1990 fluctuated greatly, but overall averaged two and half cents less than in the first half of previous year. However, the average egg prices for the second half of 1990 were around one cent higher than in the second half of 1989. By the end of 1990, egg prices were the same as they ended in 1989. Both layer numbers and egg production declined in 1990 relative to 1989.

Average chicken and turkey prices remained close to the previous year's level. The only decrease in chicken prices in 1990 occurred from January to February. Turkey prices in 1990 decreased as the year progressed.

The number of chickens eviscerated increased as did the number of turkeys with the exception of the 5-8 kilogram class. This resulted in an over eight per cent increase in total poultry meat production (including stewing hens) from 1989 levels.

Table 63
EGG PRICES TO PRODUCERS

	Grade AL	Grade AM	Grade AS	Grade B	Grade C
	- cents per dozen -				
	1989				
January	114	103	64	60	30
February	114	103	64	60	30
March	116	105	66	60	30
April	116	105	66	60	30
May	116	105	66	60	30
June	117	106	67	60	30
July	117	106	67	60	30
August	116	105	66	60	30
September	116	105	66	60	30
October	118	107	68	60	30
November	119	108	69	60	30
December	118	107	68	60	30
	1990				
January	112	101	62	60	30
February	111	100	61	60	30
March	115	104	65	60	30
April	115	104	65	60	30
May	112	101	62	60	30
June	113	102	63	60	30
July	115	104	65	60	30
August	119	108	69	60	30
September	119	108	69	60	30
October	118	107	68	60	30
November	119	108	69	60	30
December	118	107	68	60	30

Note: Prices have been rounded to the nearest cent.

Table 64
AVERAGE MONTHLY PRICES TO PRODUCERS OF LIVE CHICKENS AND TURKEYS

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.	Year*
						- cents per kilogram -							
						1989							
Chickens:													
Under 2.3 kg	119.0	119.0	119.0	119.0	119.0	122.0	124.0	125.2	126.0	126.0	126.0	126.0	122.5
2.3 and under 2.8 kg	109.5	109.5	109.5	109.5	109.5	111.3	112.5	113.8	112.5	112.5	112.5	112.5	111.3
2.8 and under 3.2 kg	133.5	133.5	133.5	133.5	133.5	136.5	138.5	139.7	140.5	140.5	140.5	140.5	137.0
3.2 kg and over	133.5	133.5	133.5	133.5	133.5	136.5	138.5	139.7	140.5	140.5	140.5	140.5	137.0
Turkeys:													
5.4 kg and under	157.5	157.5	157.5	157.5	157.5	155.7	154.5	154.5	154.5	154.5	156.0	156.5	156.1
5.4 and under 9.0 kg	156.5	156.5	156.5	156.5	157.5	155.7	154.5	154.5	154.5	154.5	156.0	156.5	155.8
9.0 kg and over	149.5	149.5	152.8	155.0	158.0	159.8	161.0	161.0	161.0	161.0	162.5	163.0	157.8
						1990							
Chickens:													
Under 2.3 kg	124.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.0	122.2
2.3 and under 2.8 kg	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5
2.8 and under 3.2 kg	138.5	136.5	136.5	136.5	136.5	136.5	136.5	136.5	136.5	136.5	136.5	136.5	136.7
3.2 kg and over	138.5	136.5	136.5	136.5	136.5	136.5	136.5	136.5	136.5	136.5	136.5	136.5	136.7
Turkeys:													
5.4 kg and under	156.5	156.5	156.5	156.0	155.5	155.5	155.5	155.5	155.5	155.0	154.5	154.5	155.6
5.4 and under 9.0 kg	156.5	156.5	156.5	156.0	155.5	155.5	154.7	154.5	154.5	153.5	152.5	152.5	154.9
9.0 kg and over	163.0	163.0	163.0	160.5	158.0	158.0	156.4	156.0	155.7	153.5	152.5	152.5	157.7

* Straight average price.
Note: Prices are Alberta averages.

Table 65
HATCHERY CAPACITIES

	Breeder Hatcheries	Commercial Hatcheries	Total Hatchery Capacity
		- number -	
1982	0	16	6,250,004
1983	0	15	6,587,144
1984	1	14	6,225,870
1985	1	14	6,225,870
1986	-	12	6,352,592
1987	-	12	6,352,592
1988	-	12	6,352,592
1989	1	12	6,338,640
1990	1	12	6,338,640

Table 66
CHICK PRODUCTION

For Egg Production Type*

1989r	1990	Change
	- number -	- % -
2,094,000	2,138,000	+2.1

For Broiler & Roaster Production Type

1989r	1990	Change
	- number -	- % -
35,204,000	37,690,000	+7.1

* Female chicks only

Table 67
CHICK SUPPLY AND DISPOSITION

	Hatch-ability -%-	Chicks Hatched(1)	International Imports	Interprovincial Imports	Total Exports	Net Supply	Residual(2)
				- number -			
1983	75.8	37,282,000	455,681	520,524	619,598	35,568,536	2,070,071
1984	77.2	39,954,421	389,000	519,935	772,414	37,859,628	2,231,314
1985	77.7	39,644,683	468,178	378,437	827,707	37,455,660	2,207,931
1986	77.0	40,571,570	455,770	355,292	1,083,440	37,721,923	2,577,269
1987	76.8	44,697,000	517,000	505,323	1,389,000	41,860,323	2,470,000
1988	75.7	41,888,000	435,000	587,396	976,530	39,539,866	2,394,000
1989r	75.7	41,704,000	397,000	661,707	905,977	39,749,730	2,107,000
1990	75.4	44,077,000	466,000	642,051	1,089,871	42,076,180	2,019,000

1 Includes both Leghorn and broiler chicks.
2 The residual consists primarily of Leghorn cockerels that are destroyed.
r Revised

Table 68
TURKEY POULT SUPPLY AND DISPOSITION

	Hatch-ability	Poults Hatched	International Imports	Interprovincial Imports	Total Exports	Net Supply
	%			- number -		
1982	66.2	1,330,143	43,550	310,000	134,692	1,549,001
1983	66.7	1,377,871	64,654	290,582	135,107	1,598,000
1984	69.8	1,243,654	111,177	491,152	154,674	1,691,309
1985	71.4	1,165,266	178,143	520,755	201,550	1,662,614
1986	71.2	1,083,894	26,650	694,664	202,146	1,603,062
1987	68.7	1,046,012	22,000	882,394	163,486	1,786,920
1988	70.9	1,020,000	33,000	778,846	181,774	1,650,072
1989	67.4	1,039,000	11,000	701,140	176,493	1,574,647
1990	67.1	1,260,000	88,000	953,000	106,133	2,194,867

Table 69
POULTRY EVISCERATED IN REGISTERED STATIONS

	Chickens		Fowl	Ducks	Geese	Turkeys			
	Under 2 kg	Over 2 kg				Under 5 kg	5-8 kg	Over 8 kg	Total*
				- tonnes -					
1983	33 317	2 003	1 836	0.4	7.1	1 784	3 605	3 185	8 671
1984	36 497	2 210	2 531	7.0	8.0	1 999	3 853	3 666	9 650
1985	38 047	2 340	-	-	-	2 003	4 063	3 107	9 361
1986	36 993	2 198	-	-	-	1 673	3 824	3 727	9 357
1987	39 273	2 767	-	-	-	1 713	4 272	4 469	10 620
1988	39 238	2 877	-	-	-	1 924	4 148	4 510	10 778
1989	39 028	2 244	-	-	-	1 516	5 310	3 414	10 423
1990	41 714	2 922	-	-	-	1 687	4 849	5 204	11 740

* Total includes mature turkeys.

Table 70
OUTPUT AND VALUE OF POULTRY MEATS

1989r

	Total Production		Consumed by Producers		Sold	
	Volume	Value	Volume	Value	Volume	Value
	- tonnes -	- $'000 -	- tonnes -	- $'000 -	- tonnes -	- $'000 -
Stewing Hen & Chicken	47 985	79,499	909	1,628	47 076	77,871
Turkey	9 850	18,576	56	105	9 794	18,471
Total	57 835	98,075	965	1,733	56 870	96,342

1990

	Total Production		Consumed by Producers		Sold	
	Volume	Value	Volume	Value	Volume	Value
	- tonnes -	- $'000 -	- tonnes -	- $'000 -	- tonnes -	- $'000 -
Stewing Hen & Chicken	51 098	84,205	909	1,622	50 189	82,583
Turkey	11 688	21,723	56	104	11 632	21,619
Total	62 786	105,928	965	1,726	61 821	104,202

r Revised

Table 71
PRODUCTION, DISPOSITION AND VALUE OF EGGS

1989

	Production		Disposition						
			Sold(1)						
	Number of Layers	Production	For Consumption	Value	For Hatching	Value	Leakers & Rejects	Producer use for Consumption	Value
	'000	'000 doz.	'000 doz.	$'000	'000 doz.	$'000	'000 doz.	'000 doz.	$'000
January	1,914	3,284	2,849	2,742	329	918	58	48	50
February	1,947	2,959	2,489	2,412	372	1,038	50	48	51
March	1,940	3,242	2,677	2,624	463	1,292	54	48	51
April	1,945	3,150	2,613	2,563	436	1,216	53	48	51
May	1,980	3,318	2,790	2,698	424	1,183	56	48	51
June	1,947	3,170	2,702	2,642	365	1,018	55	48	51
July	1,945	3,282	2,823	2,796	354	988	57	48	52
August	1,944	3,281	2,798	2,730	378	1,055	57	48	51
September	1,899	3,130	2,695	2,650	332	926	55	48	51
October	1,858	3,199	2,764	2,784	331	923	56	48	53
November	1,834	3,056	2,569	2,578	387	1,080	52	48	52
December	1,847	3,177	2,742	2,713	332	926	55	48	52
Year	1,917	38,248	32,514	31,932	4,503	12,563	658	576	616

1 Includes exports.

Table 71 (cont'd)
PRODUCTION, DISPOSITION AND VALUE OF EGGS

1990

	Production		Disposition						
			Sold(1)						
	Number of Layers	Production	For Consumption	Value	For Hatching	Value	Leakers & Rejects	Producer use for Consumption	Value
	'000	'000 doz.	'000 doz.	$'000	'000 doz.	$'000	'000 doz.	'000 doz.	$'000
January	1,826	3,199	2,748	2,443	347	968	56	48	48
February	1,838	2,898	2,432	2,153	369	1,030	49	48	48
March	1,865	3,103	2,529	2,302	475	1,325	51	48	49
April	1,880	3,055	2,509	2,306	447	1,247	51	48	49
May	1,926	3,352	2,784	2,446	464	1,295	56	48	47
June	1,921	3,112	2,626	2,326	385	1,074	53	48	48
July	1,918	3,147	2,688	2,449	357	996	54	48	49
August	1,901	3,168	2,684	2,530	382	1,066	54	48	51
September	1,874	3,042	2,597	2,473	344	960	53	48	51
October	1,832	3,164	2,682	2,531	380	1,060	54	48	51
November	1,782	2,952	2,482	2,360	372	1,038	50	48	51
December	1,827	2,982	2,568	2,407	314	876	52	48	50
Year	1,866	37,174	31,329	28,726	4,636	12,935	633	576	592

1 Includes exports.

APICULTURE

Colony numbers increased in 1990, for the first time since the fall of 1987 U.S.A. - Canada border closure. The number of beekeepers also seem to have stabilized after three years of declining. The price improvement from 1988 to 1989 continued into 1990.

The average honey yield in 1990 was equal to those recorded in 1984 and 1988, the highest yields in the last decade. Although yields on average were very good, some isolated areas had very poor yields in 1990 largely due to varied weather conditions. Total production was up 35 per cent from 1989, due to improved yields as well as an increase in the number of colonies per beekeeper, and total colonies. The number of colonies per apiary climbed by almost eight per cent. At the same time, the total number of colonies operated in Alberta grew by six per cent.

Table 72
BEEKEEPERS AND COLONIES

	Beekeepers	Colonies	Colonies Per Apiary
		- number -	
1981	1,700	170,000	100
1982	1,650	174,000	105
1983	1,610	172,000	107
1984	1,600	180,000	112
1985	1,700	170,000	100
1986	1,700	190,000	112
1987	1,480	193,000	130
1988	1,140	150,000	132
1989r	855	143,500	168
1990	840	152,000	181

r Revised

Table 73
HONEY PRODUCTION AND PRICE

	Yield Per Colony	Total Production	Price
	- kg -	- tonnes -	- $/kg -
1981	62	10 478	1.42
1982	47	8 210	1.37
1983	66	11 385	1.32
1984	70	12 542	1.07
1985	49	8 392	1.24
1986	57	10 886	1.32
1987	60	11 567	0.92
1988	70	10 433	0.88
1989r	54	7 811	1.08
1990	70	10 566	1.28

r Revised

Table 74
HONEY AND BEESWAX VALUE

	Honey	Honey and Wax
	- dollars -	
1981	14,934,000	15,339,000
1982	11,265,000	11,506,000
1983	15,029,000	15,300,000
1984	13,410,250	13,699,250
1985	10,415,500	10,664,900
1986	14,400,000	14,595,000
1987	10,710,000	10,921,200
1988	9,200,000	9,511,000
1989r	8,438,000	8,646,000
1990	13,552,000	13,767,000

r Revised

FUR FARMING INDUSTRY

Table 75
FUR FARM LICENCES ISSUED

	1988-89	1989-90
	- number -	
Mink & Other	13	13
Fox & Other	55	52
Chinchilla	39	39
Other (Lynx, Fisher, Marten, Coyote, Fitch)	28	40
Total	135	144

Table 76
ANIMALS RETAINED FOR BREEDING

	No. of Animals		Total Value	
	1988-89	1989-90	1988-89	1989-90
	- number -		- dollars -	
Mink	17,722	13,928	921,544	444,860
Fox	2,293	1,922	261,402	99,252
Total*	20,015	15,850	1,182,946	544,112

* - Data for other animals no longer available.

Table 77
ANIMALS PELTED

	Mink Pelts		Fox Pelts	
	Produced	Value	Produced	Value
	- no. -	- $ -	- no. -	- $ -
1983-84	40,817	1,616,353	675	94,500
1984-85	28,119	1,012,284	634	88,760
1985-86	30,855	987,360	617	92,500
1986-87	31,408	1,633,216	1,083	187,359
1987-88	37,733	1,622,519	1,222	144,196
1988-89	40,866	1,062,516	2,351	134,007
1989-90	48,312	771,543	2,471	63,801

Table 78
TOTAL VALUE OF PELTS PRODUCED

	Total Value
	- dollars -
1986-87	1,820,575
1987-88	1,766,715
1988-89	1,196,523
1989-90	835,344

FOOD AND BEVERAGE INDUSTRY

Table 79
PER CAPITA CONSUMPTION OF MEATS IN CANADA

Year	Beef	Veal	Mutton & Lamb	Pork	Offals	Poultry
			- kilograms per year -			
1969	38.8	2.3	2.3	23.3	1.7	20.0
1970	38.3	2.1	2.1	26.7	1.5	20.5
1971	40.2	2.0	1.5	29.5	2.0	19.7
1972	42.8	1.7	2.1	28.6	1.9	20.2
1973	42.0	1.5	1.6	26.9	1.8	20.9
1974	43.7	1.6	1.1	28.2	1.7	20.3
1975	48.5	2.4	1.3	24.1	1.7	19.0
1976	51.4	2.4	1.0	25.1	1.7	20.0
1977	48.8	2.3	0.8	25.1	1.6	20.7
1978	45.7	1.8	0.9	26.0	1.9	21.3
1979	39.9	1.4	1.1	29.0	1.4	22.8
1980	39.5	1.4	0.8	31.3	1.9	22.8
1981	40.7	1.6	0.7	30.1	1.4	22.6
1982	40.4	1.7	0.7	27.8	1.3	22.7
1983	40.0	1.7	0.8	28.6	1.4	22.9
1984	38.3	1.8	0.9	27.9	1.5	23.7
1985	38.8	1.8	0.8	28.5	1.7	25.1
1986	39.5	1.8	0.9	27.9	1.7	26.2
1987	38.2	1.7	0.9	28.7	1.5	27.7
1988r	38.3	1.5	0.9	29.3	1.0	28.4
1989	37.6	1.7	0.8	29.3	0.8	27.7
1990*						

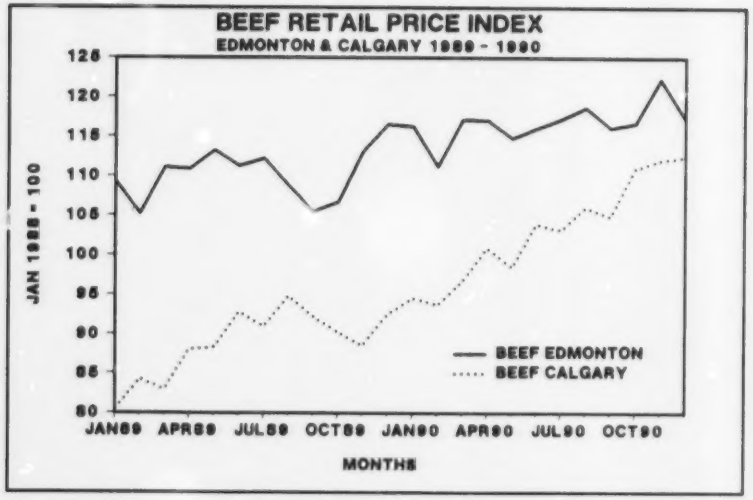
Note: Poultry consumption data prior to 1977 include geese and ducks.

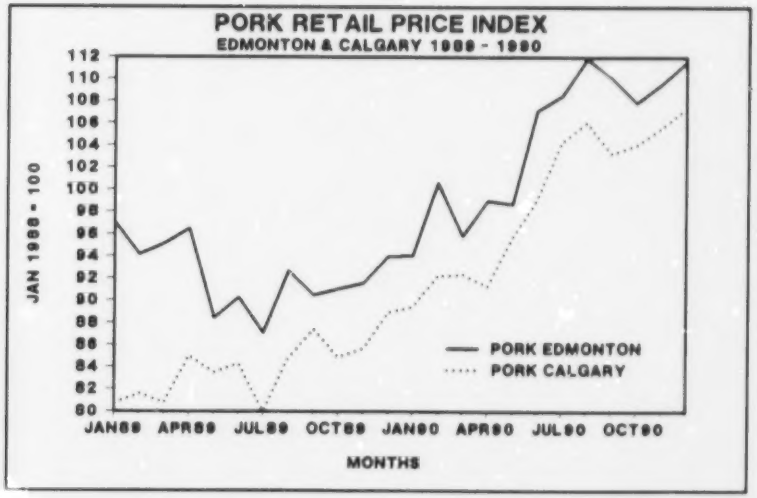
* Data was not available at the time of printing.
r Revised

Table 80
FOOD AND BEVERAGE INDUSTRIES

	Establishments		Value of Shipments and Other Revenue	
	1987	1988	1987	1988
	- number-		- thousands of dollars -	
Meat & Meat Products (exc. poultry)	64	73	2,340,450	2,387,239
Poultry Products Industry	6	6	166,836	169,048
Fish & Fish Products Industry	1	1	*	*
Fruit & Vegetable Industries	6	8	63,605	66,516
Fluid Milk Industry	6	7	*	*
Other Dairy Products Industry	32	30	344,704	351,012
Cereal Grain Flour Industry	4	4	122,836	116,032
Prepared Flour Mixes & Cereal Foods	2	2	*	*
Feed Industry	65	70	289,325	328,332
Vegetable Oil Mills (exc. corn oil)	6	6	*	*
Biscuit Industry	2	2	*	*
Bread & Other Bakery Products	34	39	122,425	118,222
Sugar & Sugar Confectionery Industry	8	7	*	*
Tea & Coffee Industry	1	1	*	*
Dry Pasta Products Industry	6	5	*	*
Potato Chip, Pretzel & Popcorn	3	4	*	*
Other Food Products n.e.c. (incl. malt) ..	17	20	132,799	179,867
Soft Drink Industry	15	14	205,518	222,254
Distillery Products Industry	3	3	*	*
Brewery Products Industry	7	6	132,941	162,739
Wine Industry	2	2	*	*
TOTAL	290	310	4,634,716	4,912,426

* Confidential to meet secrecy requirements of the Statistics Act.





RETAIL FOOD PRICE INDICES

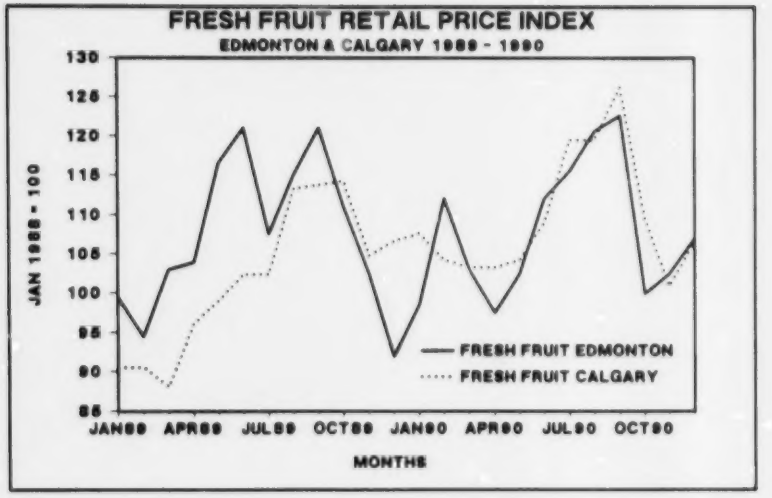
Retail prices of over 70 food items are collected each week at representative stores of the major food chains in Edmonton and Calgary. The prices are weighted to account for estimated market share held by each chain as well as the relative importance of each item in the total food at home budget. The index base is January 1988.

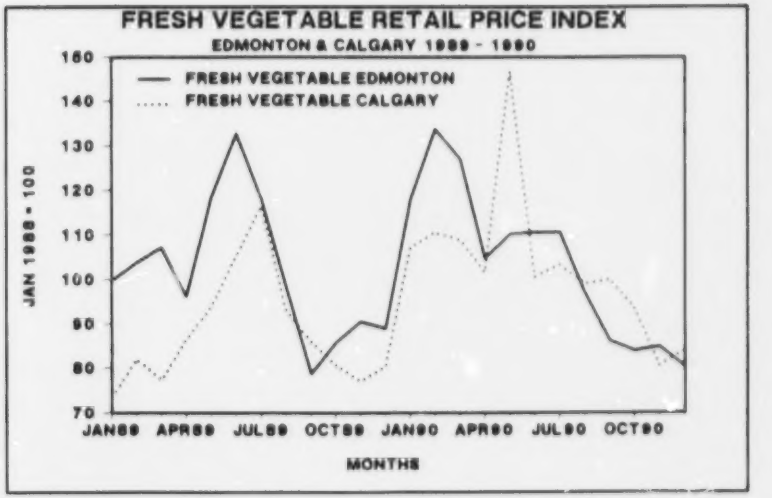
Beef Retail Price Index

The retail price index of beef for Edmonton gradually increased about eight index points over 1989 and 1990 in response to stronger producer prices. Seasonally higher prices for barbecue preferred cuts are reflected in the increased index during the summer months. As well, increases in the index in late fall of each year are generally the result of decreased availability of slaughter beef during this period. Beef retail price indices for Edmonton and Calgary typically follow a similar pattern, however, increased competition from the introduction of a new competitor to the Calgary market, late in 1988, was influential in the Calgary index reporting about 20 index points below that of Edmonton in 1989. The spread between the indices of the two cities gradually lessened through 1990, ending the year with the Calgary index just five index points below that of Edmonton.

Pork Retail Price Index

The retail price index of pork in both Edmonton and Calgary followed a very similar pattern, however increased competitiveness in the Calgary market, due to the addition of a new competitor late in 1988, caused the Calgary index to begin 1989 about 15 index points below that of Edmonton. The spread between the two cities narrowed to about 5 index points by the middle of 1989 where it remained relatively steady to the end of 1990. The retail pork price indices for both cities showed a steady increase from the summer of 1989 to the end of 1990 as a result of stronger producer prices due in part to





decreased North American production. The Edmonton index finished 1990 about 17 index points higher than it began the year while the Calgary index finished 1990 about 18 index points higher than it began the year.

Fresh Fruit Retail Price Index

The fresh fruit retail price indices for Edmonton and Calgary followed a similar pattern in 1989 and 1990. In 1990, the index for Edmonton showed almost no change from 1989 due to a bountiful harvest in both years, especially of apples which are the major component of the fresh fruit retail price index. The fresh fruit retail price index for Calgary showed an increase of almost 15 points over the two year period due to the gradual lessening of the strong competitiveness in the Calgary market exhibited after the introduction of a new competitor late in 1988. The cyclical peaks of the indices are indicative of the seasonal supply trends while the timing of the cyclical depressions are an indicator of harvest and the depth of the decline an indicator of the harvest yields.

Fresh Vegetable Retail Price Index

The fresh vegetable retail price indices for Edmonton and Calgary continued their cyclical trends by peaking in early summer of each year as supplies of local storable fresh vegetables decline. Since potatoes are a major component of the fresh vegetable retail price index, locally available potato supplies often have the dominant influence on the index. This was evident in the spring of 1989 when lower supplies of domestic potatoes were supplemented with higher priced imported potatoes, causing a dramatic increase in the indices for both cities. This level was matched only by the Edmonton index in the first quarter of 1990 due to the decreased availability of good quality imported salad vegetables. The fresh vegetable retail price index for Calgary was also influenced by increased competition in the Calgary market place late in 1988 causing the spread between the cities to be almost 25 index points in the early part of 1989.

AGRICULTURAL EXPORTS

INTRODUCTION

Export statistics are presented in two forms: shipments out of Alberta to all destinations including other Canadian provinces (i.e. out-of-province) and shipments to destinations outside Canada (i.e. out-of-country). Estimates of out-of-province shipments were derived by subtracting apparent provincial consumption from provincial production using data from a variety of sources, ranging from government publications to private industry contacts.

Primary out-of-country exports were obtained from the International Trade Division of Statistics Canada. Supplementary statistics were mainly from provincial government sources. In a number of cases adjustments and revisions to Statistics Canada's export data were required to overcome misrepresentations resulting from the attribution of exports on a province of lading basis rather than by province of origin.

OUT-OF-PROVINCE SHIPMENTS

The total value of out-of-province shipments rose in 1990 by eight per cent to $3,961 million from $3,675 million in 1989. The increase was due mainly to a $159 million rise in grains and oilseed shipments. Due to this, grains and oilseeds made up 47 per cent of the total value of shipments, up one per cent from the 1989 ratio.

Meat and animal products accounted for 29 per cent of the value of shipments, with live animals representing a further 11 per cent. Forage seeds and other crops and crop products accounted for another 11 per cent. Peat moss and beverages constituted the remaining two per cent of shipments.

EXPORT OVERVIEW

The value of Alberta's 1990 out-of-country exports of primary and processed agricultural products was estimated at $2,692 million. This represented about 73 per cent of out-of-province shipments. In 1989, out-of-country exports totalled $2,081 million, representing 57 per cent of the out-of-province shipments for that year. Significant gains were achieved in exports of wheat, pork, live cattle, whiskey, and raw hides and skins. However, substantial decreases in hog, oat, seeds for sowing, and oilseed cake and meal shipments were also recorded.

Alberta's live cattle export value increased in 1990 to $250.8 million from $146.6 million in 1989. This resulted from a sharp rise of some 129,000 head in sales volume owing to relatively high prices and demand in the United States of America. Despite this increase, Alberta's share of Canadian cattle exports fell to 31 per cent from the previous year's level of 34 per cent.

Exports of pork in 1990 rose by 148 per cent to about $85 million in spite of the U.S. countervail duty which was instituted in 1989. However, live hog export sales were down during the year, totalling some $35 million, about 38 per cent lower than the previous year's total.

Wheat exports, valued at $1,037.7 million, were up 81 per cent from a year earlier and, thus, remained by far Alberta's most important agricultural export commodity, accounting for almost 39 per cent of total export revenue. The 1990 increase marked a return to normal levels following severe drops in shipments to the U.S.S.R. and China (PR) in 1989.

Exports of oats fell from 1989 levels to around $52 million. Barley exports rose to $307 million from $291 million while canola/rapeseed shipments dropped by $24 million to about $230 million.

TRADING PARTNER AND REGIONAL REVIEW

Alberta's major traditional agricultural export markets include the United States, Japan, the USSR and, to a lesser extent, the People's Republic of China, Saudi Arabia, Taiwan and South Korea. In 1990, these seven countries accounted for $2,142 million worth of shipments, fully four-fifths of the total out-of-country exports during the year.

United States of America

The U.S.A. was Alberta's most important customer in 1990, purchasing about $757 million worth of agricultural commodities, a rise of 24 per cent from 1989. While shipments of many products were up, the increase was due in part to data source changes which resulted in improved data capture and higher values due to the inclusion of freight in the valuation process.

Beef exports rose by $13.1 million to $78 million mainly as a result of a 14 per cent increase in sales volume. Oat exports were down from $80.9 million a year earlier to $47.6 million, with quantities dropping from 486 472 tonnes to 398 320 tonnes. Significantly, feeder and slaughter cattle exports nearly doubled from 141,767 to 274,028 head.

Pork exports rebounded after persistent problems in the packing industry, along with countervail duties, had led to a 33 per cent decrease in 1989. Shipments rose by 99 per cent to 30 258 tonnes. Noteworthy increases also occurred in whiskey, processed meat and canola oil exports.

Japan

Japanese imports of agricultural commodities from Alberta were estimated at about $577.5 million, compared with $529 million and $472 million in 1989 and 1988, respectively. Canola seed, at a value of $223.7 million, was the single most important export commodity, accounting for nearly 39 per cent of the total 1990 export value and advancing some $13 million from 1989.

Barley shipments to Japanese markets rose markedly to 530 103 tonnes, from 395 881 tonnes in 1989, because of lower international prices and improved demand. The total shipment value of $71.4 million was over 28 per cent higher than the 1989 value. Significant advances were also achieved in shipments of wheat and dehydrated alfalfa.

People's Republic of China

Alberta's exports of agricultural commodities to the People's Republic of China in 1990 totalled $284.8 million, up from $118.8 million in 1989. The main reason for this increase was the return of wheat exports to a more normal $279.8 million following a dramatic drop in 1989. Barley shipments dropped in value to $4.2 million from $14.2 million in 1989 while canola oil shipments declined to $1.1 million from $9.8 million in 1989.

Other Asia

Other Asian markets of significance to Alberta in 1990 included South Korea, Taiwan, Bangladesh, the Philippines and Indonesia. Exports to these countries were worth $187.6 million up from $146.8 million. The major commodities going to this region included wheat, raw hides and skins.

U.S.S.R.

Exports of agricultural commodities from Alberta to the U.S.S.R. in 1990 amounted to $323.4 million, up from $126.9 million during the preceding year. The main reason for the increase was a jump in wheat sales which rose to 1 228 188 tonnes from 420 790 tonnes in 1989, with the export value rising to $248.6 million from $106.5 million. Another reason was a sharp rise in barley exports, to 581 196 tonnes ($73.5 million) from 114 622 tonnes ($15.7 million).

Western Europe

Exports to Western Europe totalled $130.8 million, up from a 1989 total of $127.1 million. Italy, the United Kingdom, and Belgium/Luxembourg with $28.4 million, $25.6 million and $20.8 million worth of purchases, respectively, were the major markets. Wheat was by far the most important commodity, making up over 40 per cent of the total export value. Horsemeat was also important totalling some $17 million in shipments. Other export commodities of note included peas, linseed, and whiskey.

Middle East

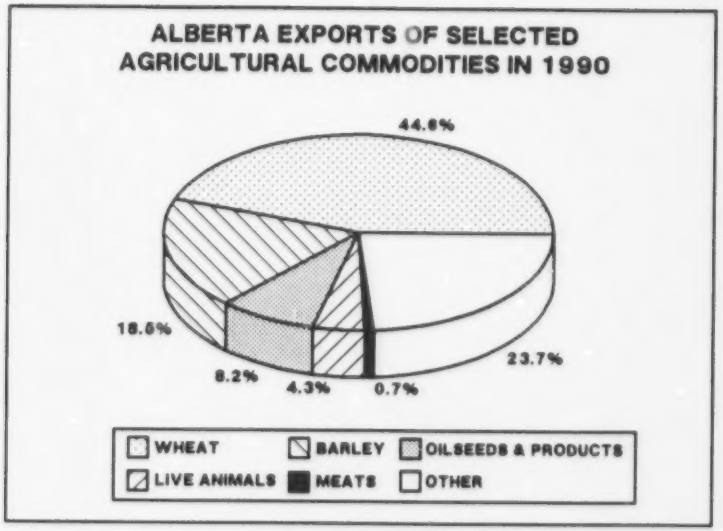
Shipments from Alberta to the Middle East decreased to $224.2 million from a 1989 level of 254.6 million, mainly because of the Persian Gulf crisis. Exports to Saudi Arabia and Iraq were down 17.3 per cent and 46.8 per cent to $95.1 million and $36.3 million, repectively. Significantly, however, exports to Kuwait climbed from $8,000 to $12.7 million. Notable among the commodities shipped to the Middle East were wheat, barley, wheat flour, and peas.

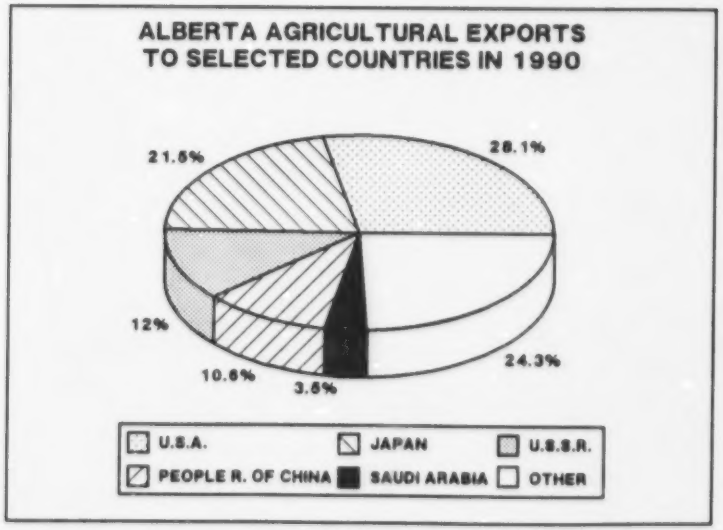
Other Africa

Alberta's agricultural exports to this region in 1990 more than doubled from 1989 levels to $70.7 million. Even though shipments to many of the countries in the region were up sharply, the major reason for the overall increase was a $23 million rise in shipments to South Africa.

South and Central America

Agricultural exports to South and Central America from Alberta in 1990 were worth $119.6 million, down 25 per cent from 1989. Cuba, Colombia, Mexico, and Brazil were the region's most active importers. Heading the list of commodities imported were wheat at $84.7 million and canola at $24.2 million.





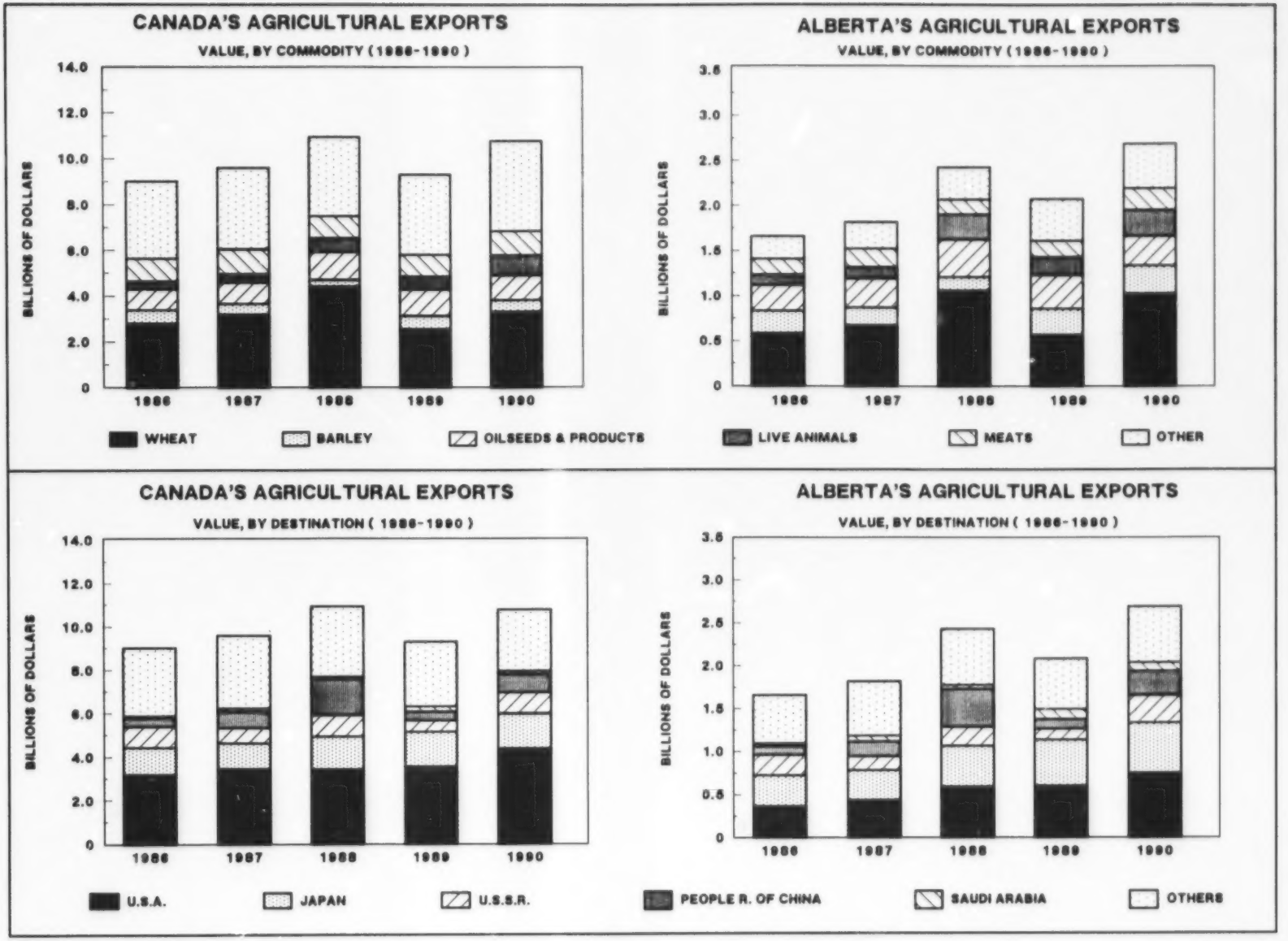

CANADA'S AGRICULTURAL EXPORTS
VALUE, BY COMMODITY (1986-1990)
BILLIONS OF DOLLARS
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0
1986
1987
1988
1989
1990
WHEAT
BARLEY
OILSEEDS & PRODUCTS
ALBERTA'S AGRICULTURAL EXPORTS
VALUE, BY COMMODITY (1986-1990)
BILLIONS OF DOLLARS
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0
1986
1987
1988
1989
1990
LIVE ANIMALS
MEATS
OTHER
CANADA'S AGRICULTURAL EXPORTS
VALUE, BY DESTINATION (1986-1990)
BILLIONS OF DOLLARS
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0
1986
1987
1988
1989
1990
U.S.A.
JAPAN
U.S.S.R.
ALBERTA'S AGRICULTURAL EXPORTS
VALUE, BY DESTINATION (1986-1990)
BILLIONS OF DOLLARS
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0
1986
1987
1988
1989
1990
PEOPLE R. OF CHINA
SAUDI ARABIA
OTHERS

TABLE 81
ESTIMATES OF OUT-OF-PROVINCE SHIPMENTS

Commodity	Quantity		Value	
	1989r	1990	1989r	1990
	- thousands of tonnes -		- thousands of dollars -	
Wheat	3 900	5 686	767,119	1,061,988
Oats	544	429	90,585	52,169
Barley	3 034	2 645	391,317	342,547
Rye	69	93	7,519	10,656
Flaxseed	39	38	15,539	13,411
Canola	1 400	1 243	417,712	368,204
Mustard Seed	24	22	8,482	8,575
Forage Seeds	15	14	12,687	15,256
Potatoes	41	22	11,313	7,550
Alfalfa, dehydrated	307	314	50,424	51,050
Honey	6	5	5,061	9,131
Wheat Flour	89	101	29,197	28,493
Malt and Malt Flour	114	125	47,848	52,843
Canola Oilcake and Meal	280	271	58,800	48,790
Canola Oil	203	225	110,134	146,313
Beef and Veal	288	308	765,428	735,498
Pork	34	54	75,374	143,574
Other Meats	17	21	47,434	59,049
Other Animal Products	N/A	N/A	204,055	200,755
Cattle (Number)	422,953	458,510	386,727	386,265
Swine (Number)	753,266	377,952	87,501	56,104
Other Live Animals	N/A	N/A	5,681	7,493
Peat Moss	79	68	11,693	14,294
Whiskey	N/A	N/A	16,404	52,678
Beer and Other Beverages	N/A	N/A	2,749	1,514
All Other Commodities	N/A	N/A	48,376	87,214
TOTAL	N/A	N/A	3,675,159	3,961,414

r Revised
N/A Data not available or not applicable

Table 82
OUT-OF-COUNTRY EXPORTS - BY COMMODITY

	Alberta		Western Canada		Canada	
	1989r	1990	1989r	1990	1989r	1990
	- thousands of dollars -					
Purebred Cattle	7,935	3,547	11,615	4,067	47,926	32,948
Other Cattle	138,695	250,267	247,839	530,694	330,990	657,890
Live Hogs	56,563	35,260	105,513	84,750	126,036	113,794
Other Livestock	3,117	4,118	14,091	14,453	57,964	81,420
Meats-Beef	95,801	92,223	120,393	116,641	252,109	253,433
Pork	34,178	84,892	155,234	157,028	553,016	624,485
Horse	35,452	33,248	36,174	33,248	70,452	63,368
Other	409	122	2,405	2,225	8,891	7,771
Processed Meats	11,573	25,679	37,867	54,340	78,303	111,428
Dairy Produce	866	7,701	2,887	23,000	175,941	190,270
Eggs	18	33	4,949	3,285	28,765	26,410
Honey	4,350	4,516	20,737	10,909	23,319	12,200
Barley	291,105	306,934	573,098	506,075	573,098	506,075
Wheat	572,997	1,037,746	2,432,811	3,248,904	2,578,918	3,340,863
Oats	87,584	52,169	158,451	74,207	159,733	74,375
Other Cereals, Unmilled	5,006	10,954	28,608	47,636	46,435	81,081
Hard Spring Wheat Flour	7,693	10,293	13,364	14,900	61,444	49,058
Other Cereals, Milled	47,939	45,278	81,908	83,403	96,047	95,416
Cereal Preparations	4,215	3,721	11,974	17,954	189,817	250,115
Peas	13,959	15,597	48,126	46,302	54,927	47,009
Lentils	310	1,068	31,036	62,810	44,827	63,208
Other Dried Beans	4,899	6,421	12,198	14,914	48,849	59,104
Fruits, Vegs and Preparations	15,132	10,413	107,095	108,979	425,253	484,719
Sugar and Sugar Preparations	1,240	3,705	6,833	9,555	170,770	171,212
Other Foods and Food Materials	2,907	3,977	20,165	11,494	216,340	279,982
Oilseed Cake and Meal	49,054	24,668	73,162	48,029	94,847	67,704
Alfalfa, Dehy	50,424	51,050	72,034	72,929	74,001	73,941
Other Feeds, Vegetable Origin	11,294	10,174	36,400	42,593	80,142	80,734
Other Fodders and Feeds	11,251	14,591	73,232	74,411	170,312	211,970
Whisky	16,404	52,678	26,452	110,637	243,518	428,152
Beer	869	281	18,038	15,755	197,808	189,999
Other Beverages	1,880	1,233	19,354	23,847	46,465	73,886
Tobacco	0	33	104	642	92,276	115,225
Raw Hides and Skins	95,830	116,150	138,571	165,134	244,261	285,139
Fur Skins Undressed	118	64	16,748	7,836	107,341	102,501

Table 82 (cont'd)
OUT-OF-COUNTRY EXPORTS - BY COMMODITY

	Alberta		Western Canada		Canada	
	1989r	1990	1989r	1990	1989r	1990
	- thousands of dollars -					
Bovine Semen	2,748	2,165	3,690	3,050	29,306	31,446
Other Crude Animal Products	7,324	7,352	11,764	11,907	46,345	34,102
Seeds for Sowing	25,904	15,766	48,516	42,218	60,523	50,169
Flaxseed	15,539	13,411	201,811	174,166	201,811	174,166
Canola Seed	253,774	229,654	622,899	612,774	623,873	612,825
Mustard Seed	8,482	8,575	41,173	41,626	41,173	41,626
Other Oilseeds, Oil Nuts	517	895	11,382	11,640	85,343	69,297
Nursery Stock	100	37	7,767	9,402	126,859	94,922
Peat Moss	11,693	14,294	11,693	14,294	106,304	129,943
Other Crude Vegetable Products	61	45	2,833	7,901	21,581	34,063
Tallow	27,763	25,405	40,858	36,225	77,620	75,193
Canola Oil and Mustard Oil	43,364	48,807	92,693	81,346	110,740	108,460
Other Oils, Fats, Waxes, Extracts	2,781	5,031	8,391	15,173	27,440	34,256
TOTAL	2,081,117	2,692,241	5,864,939	6,905,311	9,330,057	10,797,351

r Revised

Table 83
OUT-OF-COUNTRY EXPORTS - BY DESTINATION

	Alberta		Western Canada		Canada	
	1989r	1990	1989r	1990	1989r	1990
	- thousands of dollars -					
United States	608,639	756,696	1,401,091	1,706,248	3,576,332	4,415,422
United Kingdom	21,854	25,564	86,528	82,148	203,455	200,969
Belg./Luxembourg	24,260	20,773	161,188	106,430	187,153	121,434
France	9,546	10,730	18,548	17,290	59,556	63,727
Germany	27,041	11,642	78,399	49,864	123,763	102,027
Italy	28,432	28,363	100,220	83,530	128,326	115,088
Netherlands	14,963	13,289	39,724	34,490	70,824	69,742
Portugal	3,879	6,603	12,725	16,166	54,077	26,501
Switzerland	6,139	5,657	9,627	8,978	37,393	33,938
USSR	126,872	323,353	513,170	938,462	520,449	970,544

Table 83 (cont'd)
OUT-OF-COUNTRY EXPORTS - BY DESTINATION

	Alberta		Western Canada		Canada	
	1989r	1990	1989r	1990	1989r	1990
			- thousands of dollars -			
Ethiopia	1,212	5,111	8,913	15,198	20,751	17,422
Iran	57,031	61,319	187,440	169,906	261,345	178,051
Iraq	68,248	36,282	232,801	98,672	245,394	98,672
Kuwait	8	12,683	18	24,845	2,389	25,615
Libya	3,708	3,780	29,929	16,523	36,103	25,723
Saudi Arabia	115,049	95,090	226,471	161,461	232,389	163,463
Ghana	4,011	3,016	15,372	8,880	17,995	9,622
South Africa	76	23,111	661	68,046	4,284	71,114
Algeria	20,518	24,098	127,651	116,203	166,473	152,175
Morocco	1,632	3,747	4,378	7,121	14,198	23,722
Mozambique	1,704	7,532	8,539	23,236	9,297	25,126
Bangladesh	11,434	23,297	44,979	69,436	47,216	70,421
Hong Kong	2,399	2,124	11,000	12,649	41,314	61,988
India	161	3,091	742	8,348	1,229	9,042
Malaysia	7,055	7,784	27,332	22,870	33,626	28,955
People R. China	118,823	284,783	403,658	833,902	414,900	835,844
Indonesia	21,044	14,781	69,513	49,650	70,432	50,286
Japan	528,581	577,494	1,366,262	1,395,257	1,605,242	1,596,924
Korea S	48,820	53,235	76,017	95,652	103,871	152,183
Philippines	13,222	22,791	52,614	69,712	65,443	72,914
Taiwan	37,223	50,996	74,742	90,195	104,708	131,891
Thailand	4,927	5,964	16,674	18,143	19,068	21,268
Australia	6,566	4,693	17,254	11,558	44,209	39,374
Brazil	11,993	19,632	47,427	60,206	59,580	68,548
Colombia	13,667	20,360	46,549	67,652	47,540	68,840
Peru	1,214	6,057	3,985	15,470	12,282	21,331
Venezuela	3,447	18,521	18,438	61,888	26,818	70,167
Jamaica	4,053	4,272	15,287	12,525	24,641	18,411
Cuba	22,611	23,365	88,828	70,521	115,927	113,351
Mexico	38,050	19,810	86,165	45,625	150,362	115,688
All Other Countries	41,005	50,752	134,080	140,355	369,703	339,828
TOTAL	2,081,117	2,692,241	5,864,939	6,905,311	9,330,057	10,797,351

r Revised

CENSUS AND COMPARATIVE DATA

Table 84
CENSUS DATA (1)

		1971	1976	1981	1986
Total Population	no.	1,627,874	1,838,037	2,237,724	2,375,278
Farm Population	no.	237,924	219,302	195,284	183,830
Number of Farms	no.	62,702	61,130	58,056	57,777
Average Size of Farm	ac.	790	817	813	883
Average Value of Agricultural Products Sold per Farm	$	13,273	N/A	56,236	77,433
Distribution of Farms by Size:					
Under 10 Acres	%	1.4	1.2	1.5	1.8
10 - 69 Acres	%	4.0	5.8	5.8	5.8
70 - 239 Acres	%	16.9	18.9	21.4	21.8
240 - 399 Acres	%	20.1	17.8	16.2	15.1
400 - 559 Acres	%	14.6	13.0	11.8	10.8
560 - 759 Acres	%	13.1	11.9	11.0	10.6
760 - 1,119 Acres	%	13.5	13.4	13.1	12.7
1,120 - 1,599 Acres	%	7.7	8.2	8.6	8.9
1,600 - 2,239 Acres	%	4.0	4.3	4.9	5.4
2,240 - 2,879 Acres	%	1.7	2.0	2.1	2.6
2,880 Acres and Over	%	3.0	3.5	3.6	4.4
Distribution of Farms by Tenure of Operator:					
Owner	%	59.3	60.4	58.3	52.4
Tenant	%	6.7	6.3	6.3	7.0
Owner-Tenant	%	34.9	33.3	35.5	40.6

N/A Data not available

1 The definition of a census-farm changed between the Census of Agriculture years illustrated. The data for 1971 and 1976 use the term census-farm to refer to a farm, ranch, or agricultural holding of one acre or more with sales of agricultural products, during the 12 month period prior to the census, of $50 or more. In 1981 and 1986, the minimum size requirement was removed, while the requirement for sales of agricultural products was increased to $250 or more.

Table 84 (cont'd)
CENSUS DATA

		1971	1976	1981	1986
Distribution of Farm Operators by Age:					
Under 25 Years	%	2.5	3.6	3.5	2.6
25 - 34 Years	%	14.2	16.3	17.9	17.1
35 - 44 Years	%	24.1	24.0	23.5	22.9
45 - 54 Years	%	28.6	27.1	26.0	24.1
55 - 59 Years	%	11.5	11.3	11.3	11.8
60 - 64 Years	%	9.1	8.5	8.7	9.8
65 - 69 Years	%	5.8	5.0	5.2	6.1
70 Years and Over	%	4.2	4.2	3.9	5.6
Average Age of Farm Operator	yrs.	49	47	46	48
Land Use:					
Occupied Farm Land	'000 ac.	49,506	49,929	47,218	51,040
Improved Farm Land	'000 ac.	28,460	29,302	30,951	31,892
Field Crops	'000 ac.	18,092	18,877	20,859	22,641
Wheat Total	'000 ac.	3,443	5,545	6,705	7,602
(Durum)	'000 ac.	(242)	(N/A)	(506)	(639)
Oats for Grain	'000 ac.	1,864	1,794	1,311	1,183
Barley for Grain	'000 ac.	5,689	5,630	6,433	5,568
Mixed Grain	'000 ac.	419	268	145	122
Fall Rye	'000 ac.	226	) 181 *	241	169
Spring Rye	'000 ac.	24		52	45
Flaxseed	'000 ac.	271	73	102	85
Canola/Rapeseed	'000 ac.	1,988	740	1,455	2,803
Tame Hay	'000 ac.	3,260	3,850	3,481	3,734
Sugar Beets	'000 ac.	43	42	36	30
Improved Pasture	'000 ac.	2,745	3,278	3,908	3,402
Summerfallow	'000 ac.	7,009	6,494	5,450	5,256
Other Improved Land	'000 ac.	614	653	734	592
Unimproved Land	'000 ac.	21,046	20,627	16,267	19,149

* Value is for both spring and fall rye.

Table 84 (cont'd)
CENSUS DATA

		1971	1976	1981	1986
Livestock and Poultry:					
Cattle and Calves	'000 head	3,702	4,614	4,193	3,827
Pigs	'000 head	1,816	878	1,199	1,455
Sheep	'000 head	245	189	201	179
Horses	'000 head	89	90	119	135
Hens and Chickens	'000 head	7,923	7,981	9,190	8,852
Turkeys	'000 head	896	822	903	763
Farm Machinery:					
Tractors	no.	111,256	118,987	124,214	150,479
Grain Combines	no.	42,373	42,984	42,663	42,970
Swathers	no.	40,749	44,227	47,601	49,144
Motor Trucks	no.	93,471	112,836	123,835	146,309
Farm Capital:					
Total Capital Value	$ '000	5,201,553	13,861,646	36,827,140	28,623,414
Land and Buildings	$ '000	3,530,252	10,627,528	29,961,159	20,773,520
Machinery and Equipment	$ '000	867,446	2,110,053	4,362,215	5,382,302
Livestock and Poultry	$ '000	803,855	1,124,065	2,503,766	2,467,592
Average Capital Value Per Farm	$ '000	83	227	634	495

Table 85
COMPARATIVE STATISTICS

		Alberta	Alberta as Percent of: Prairie Provinces	Alberta as Percent of: Canada
CENSUS STATISTICS 1986				
Total Population	no.	2,375,278	53.3	9.4
Number of Farms	no.	57,777	38.9	19.7
Total Land Area	ac.	157,710,720	36.3	6.9
Occupied Farm Land	ac.	51,040,463	37.6	30.5
Improved Land	ac.	31,891,516	33.7	28.1
Unimproved Land	ac.	19,148,947	46.6	35.5
Per Cent of Total Land Occupied	%	32.4	-	-
CROP AREA 1990				
All Wheat	ac.	7,720,000	23.0	22.2
Winter Wheat	ac.	170,000	44.7	14.7
Spring Wheat	ac.	6,700,000	24.1	23.9
Durum Wheat	ac.	850,000	15.5	15.5
Oats for Grain	ac.	1,500,000	51.2	40.8
Barley for Grain	ac.	5,100,000	50.2	45.1
All Rye	ac.	290,000	22.7	21.7
Mixed Grains	ac.	200,000	55.6	20.7
Flaxseed	ac.	140,000	7.8	7.8
Canola/Rapeseed	ac.	2,600,000	40.9	40.0
Corn for Grain*	ac.	7,000	8.0	0.3
Peas,dry*	ac.	100,000	29.4	29.4
Lentils*	ac.	5,000	1.4	1.4
Mustard Seed*	ac.	90,000	14.4	14.4
Tame Hay	ac.	4,650,000	55.4	31.5
Fodder Corn*	ac.	15,000	33.3	2.6
Sugar Beets	ac.	32,700	54.8	54.8
Potatoes	ac.	25,500	30.4	8.8
Summerfallow	ac.	4,990,000	24.0	23.5

* Source: Alberta Agriculture Specialty Crop Historical Series. These estimates are on a field run basis and have not been adjusted for dockage.

Table 85 (cont'd)
COMPARATIVE STATISTICS

		Alberta	Alberta as Per Cent of: Prairie Provinces	Alberta as Per Cent of: Canada
		LIVESTOCK ON FARMS, JULY 1, 1990		
Bulls	no.	92,000	56.1	38.8
Milk Cows and Heifers	no.	175,000	51.8	8.7
Beef Cows and Heifers	no.	1,805,000	55.1	41.7
Heifers for Slaughter	no.	275,000	73.7	43.9
Steers	no.	498,000	66.3	41.1
Calves	no.	1,465,000	55.5	38.0
Total Cattle and Calves	no.	4,310,000	57.1	35.1
Hogs - Breeding Stock 6 Months and Over	no.	191,000	46.4	17.2
All Other Pigs	no.	1,529,000	45.8	16.3
Total Hog	no.	1,720,000	45.9	16.4
Sheep One Year and Over	no.	104,500	72.1	26.2
Lambs Under One Year	no.	128,500	76.5	35.7
Total Sheep and Lambs	no.	233,000	74.4	30.7

FARM STRUCTURE CHARACTERISTICS

The 1989 Yearbook introduced a section on Alberta farm structure characteristics. This year's write-up includes Alberta farm types as well as some financial characteristics of these farms. The financial analysis has been categorized by a debt proxy, interest ratio as a percent of total cash expenses, which is broken down as follows:

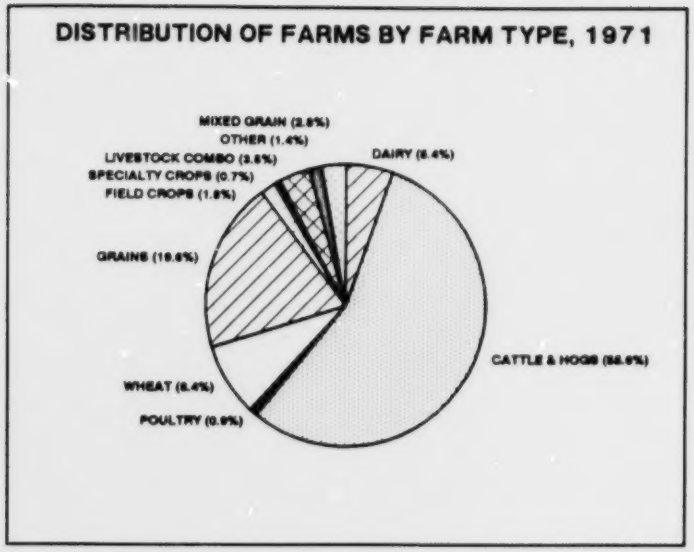
Debt Ratio	Interest Expense as a Percent of Cash Expenses
0	0 to 0.999%
1	1 to 8.999%
2	9 to 20.999%
3	21+%

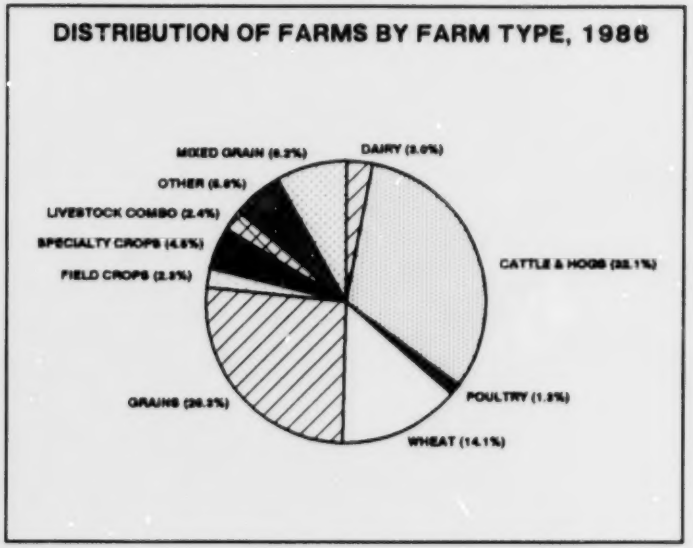
The financial analysis has also been categorized by gross farm sales into groups as follows:

Sales Group	Total Gross Farm Sales
1	under $25,000
2	$25,000 to $49,999
3	$50,000 to $99,999
4	$100,000 to $249,999
5	$250,000+

Farm Types

Cattle, small grain and wheat farms account for roughly 70 per cent of the farms in the province. These farm types are defined using the Statistics Canada methodology which estimates potential sales of inventories of the 1986 Census of Agriculture and allocates type on the basis of 51 per cent or more of estimated sales of the farm in a product type. The largest percentage of farms in the province produce cattle, followed by small-grain (e.g. barley, oats) and wheat farms.





In 1971 more cattle and hog operations could be found and less small-grain and wheat farms. Specialty crop farms have increased in number since 1971. These farms accounted for roughly 0.7 per cent of the province farms in 1971 but had increased to 4.5 per cent in 1986.

Ownership Types

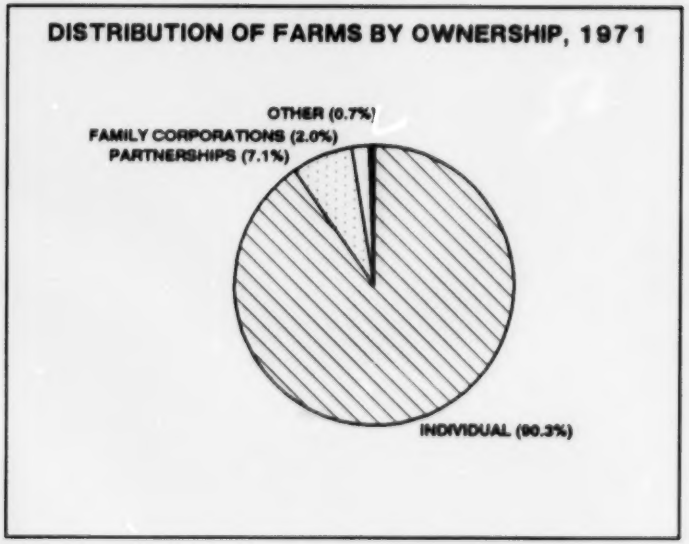
In 1986, over 80 per cent of the province's farms were individually owned. When adding in partnerships and family corporations 99 per cent of the farms were accounted for. Non-family corporations accounted for only 0.3 per cent of the farms in the province.

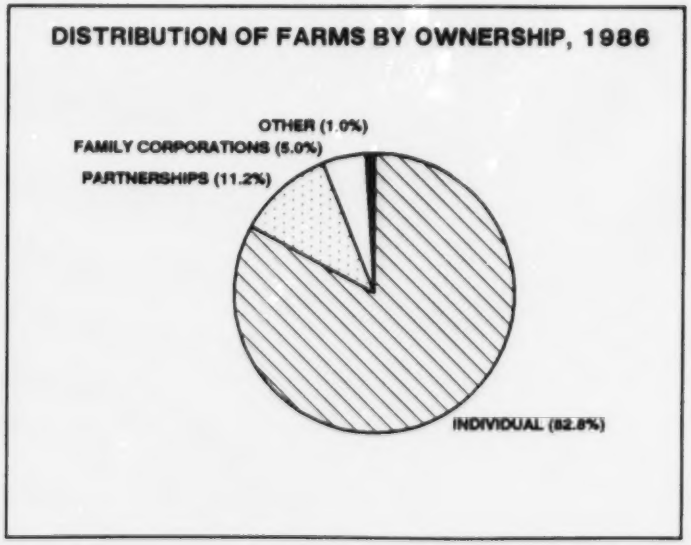
In 1971, over 90 per cent of Alberta's farms were individually owned, however only 7 per cent of the farms were owned as partnerships and 2 per cent were family corporations. The proportion of non-family corporations was the same in 1971 as 1986 (i.e. 0.3).

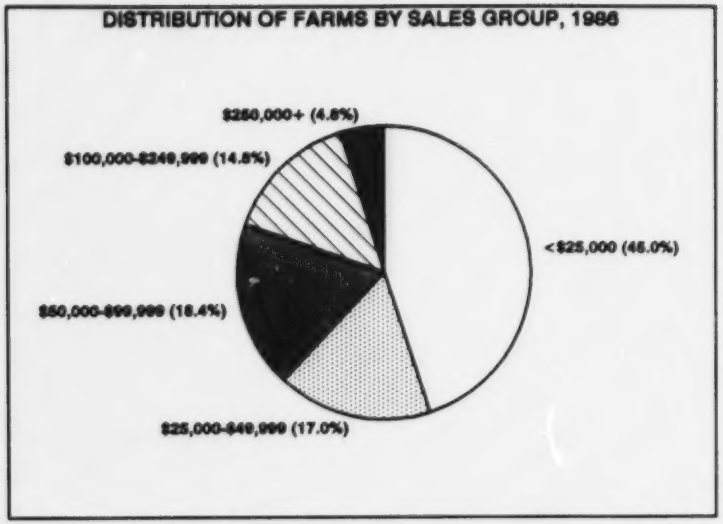
There appears to be a movement toward partnerships and family corporations.

Farm Sales

The 1986 census data has been tabulated into sales groups using 1985 sales, as reported in the census. The proportion of Alberta's farms which fall into each sales group is found in the following graph. The total 1985 sales of agricultural products were roughly $4.5 billion. When graphed to depict the distribution of gross sales across the farms in each sales group, it can be seen that while farms with under $25,000 (i.e. sales group 1) in sales account for 45 per cent of the farms they account for only 5.2 per cent of total agricultural products sold. Meanwhile farms with $250,000 or more in sales (i.e. sales group 5) comprise only 4.8 per cent of the province's farms but have nearly 42 per cent of the sales. Farms with $100,000 or more in sales (i.e. sales groups 4 and 5) account for 70 per cent of sales.

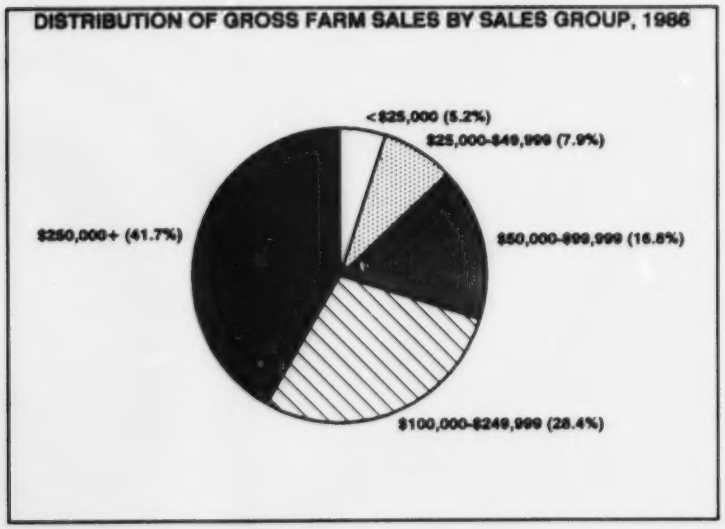


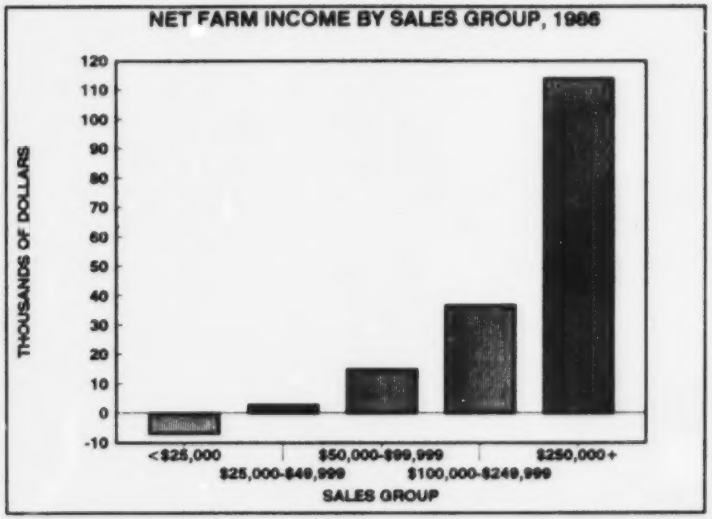




Net Farm Income

Net farm income is defined as gross farm sales less cash expenses excluding wages to family. Farms with less than $25,000 in gross sales have a negative net income. Roughly 70 per cent of the operators in this sales group (i.e. sales group 1) have off-farm work. Spousal income may also supplement these farms. Farms with $25,000 to $59,999 in sales also have a low net farm income of about $2,700. These figures are estimated from the 1986 census. When using the Alberta aggregate figure of farm cash receipts, net farm income could be down 9% in real terms for 1990. The following graph indicates that farms with no debt have an average of $50,000 net farm income. Farms with a debt ratio of 3 (i.e. interest expense is at least 21 per cent of total cash expenses) averaged under $20,000 per year.

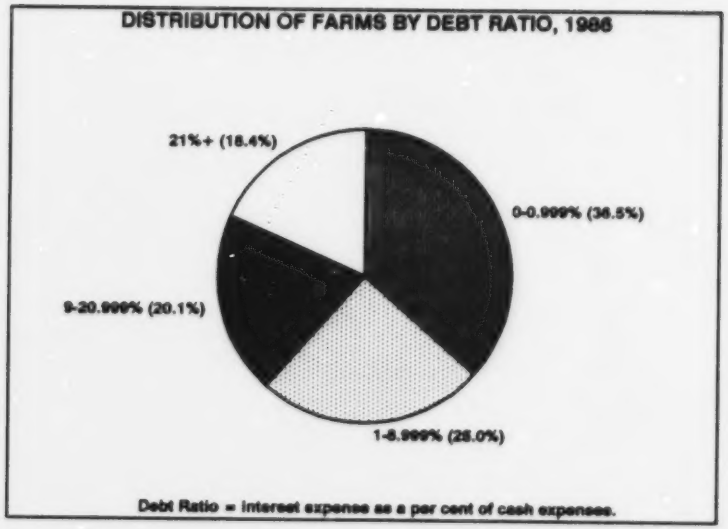


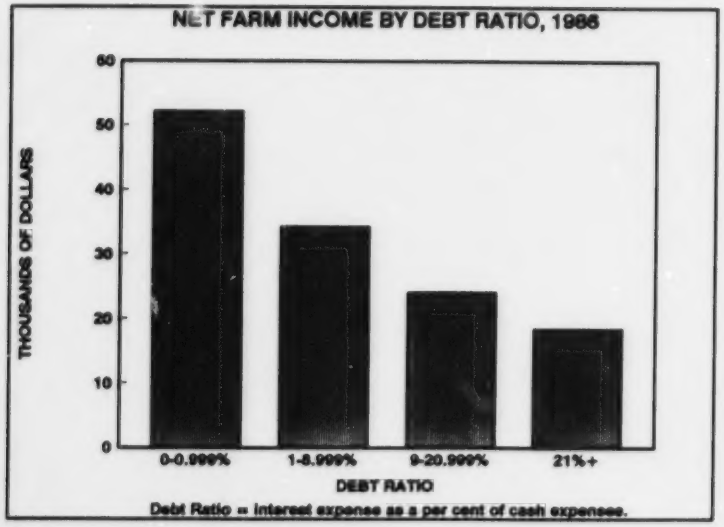


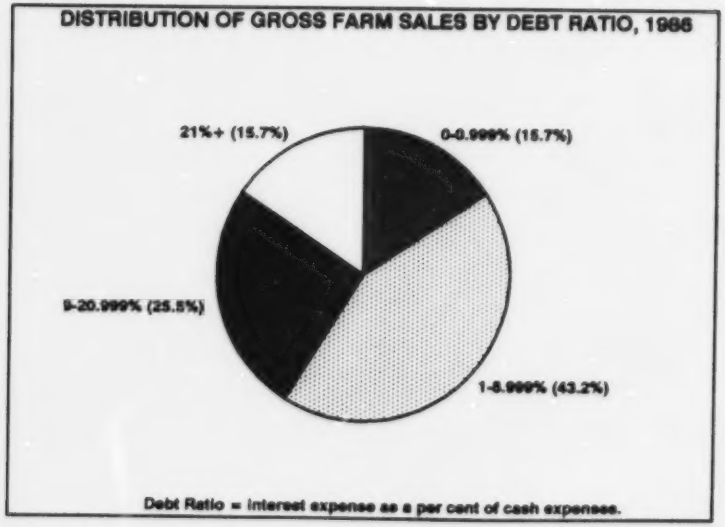
Farm Debt

As mentioned above, Alberta's farms have also been categorized by a debt proxy. These graphs indicate over one-third of Alberta's farms paid no interest expense. A further quarter of the farms in 1986 had a low level of debt (i.e. debt category 1). Considering the decrease in farm income in 1990, it will be interesting to see if these proportions changed between 1985 and 1990 using the 1991 Census of Agriculture. At least 18 per cent of Alberta's farms fell in the high debt category (3).

The following graph indicates that only 15.7 per cent of total gross farm sales are generated by farms with no debt. The majority of sales are accounted for by farms with a debt ratio of 1 (i.e. 0.999% to 8.999% of cash expenses going toward interest).

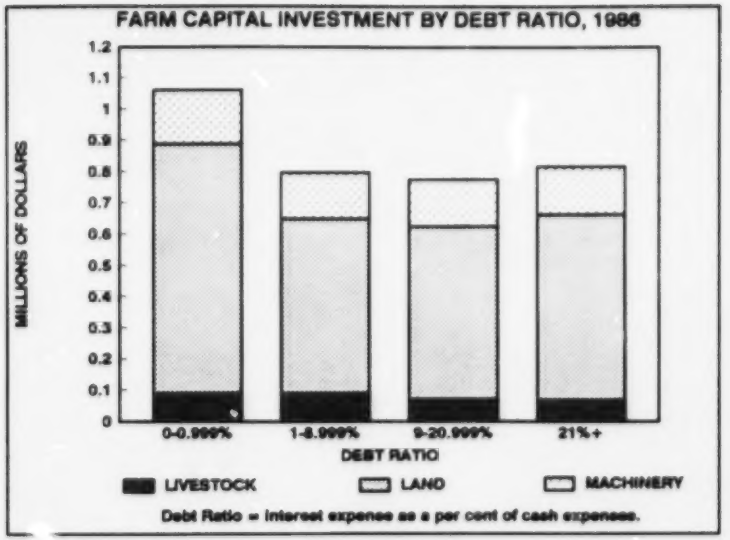

DISTRIBUTION OF FARMS BY DEBT RATIO, 1986
21%+ (18.4%)
0-0.999% (36.5%)
9-20.999% (20.1%)
1-8.999% (25.0%)
Debt Ratio = interest expense as a per cent of cash expenses.

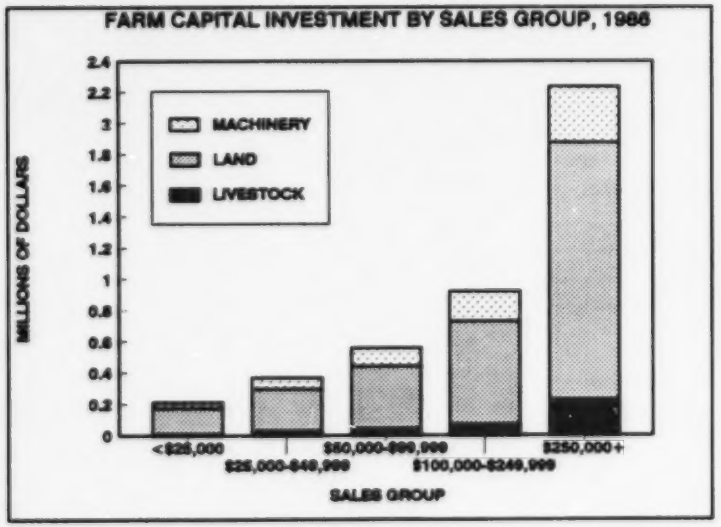



DISTRIBUTION OF GROSS FARM SALES BY DEBT RATIO, 1986
21%+ (15.7%)
0-0.999% (15.7%)
9-20.999% (25.5%)
1-8.999% (43.2%)
Debt Ratio = interest expense as a per cent of cash expenses.

Capital Investment

The highest level of land investment is found in farms with no debt or farms with over $250,000 in sales. There seems to be little relation to debt levels by machinery investment per farm although farms with no debt have slightly higher machinery investment. Machinery investment is significantly higher for farms in the higher sales groups. All farms have the highest proportion of their investment in land and buildings. Small farms however, have little investment in anything else and may include hobby farms. Sales group 1 also includes community pastures which have little or no machinery or livestock investment thereby making the land investment seem larger than average.





Summary

The basic trends and characteristics are as follows:

- Cattle farms are the predominant farm type although they have been decreasing in number over time.
- More farms are specializing in producing grains.
- Specialty crop farms are increasing in number.
- Farms are primarily individually owned or are family corporations.
- Farms seem to be converting from individually owned to partnerships or family corporations.
- The majority of Alberta's farms have a low level of sales and net farm income.
- The larger farms in terms of sales account for over 70 per cent of total gross farm sales.
- A large proportion of farms fall into the low debt category, however those with no debt account for only 15 per cent of total gross farm sales.

Table 86
CANADIAN - METRIC CONVERSIONS

AREA		
1 hectare	2.47109	acres
	0.00368	square mile
1 square kilometre	0.36810	square mile
1 acre	0.40468	hectare
1 square mile -	259	hectares
(640 acres)	2.59	square kilometres
1 arpent	0.871	acre
WEIGHT		
1 kilogram	2.2046	pounds
1 tonne (1 000 kg)	2204.622	pounds
	22.046	short hundred-weights
	19.684	long hundred-weights
	1.10231	short tons
	0.98420	long ton
1 pound	0.45359	kilogram
1 short hundredweight (100 lb.)	0.045359	tonne
1 long hundredweight (112 lb.)	0.050802	tonne
1 short ton (2,000 lb.)	0.90718	tonne
1 long ton (2,240 lb.)	1.01605	tonne

Table 87
WEIGHT EQUIVALENTS OF SELECTED COMMODITIES

Wheat		
1 bushel	0.027216	tonne
1 tonne	36.744	bushels
Oats		
1 bushel	0.015422	tonne
1 tonne	64.842	bushels
Barley		
1 bushel	0.021773	tonne
1 tonne	45.930	bushels
Rye, Flaxseed and Corn		
1 bushel	0.0254	tonne
1 tonne	39.368	bushels
Canola/Rapeseed		
1 bushel	0.02268	tonne
1 tonne	44.092	bushels
Mixed Grain		
1 bushel	0.020412	tonne
1 tonne	48.992	bushels

SOURCES AND METHODS

The general procedure used in preparing this yearbook has remained similar since 1972. A large percentage of the material presented for the current year is based on estimates derived from sample data. Users are reminded that the data is subject to revision.

INCOME

Various people within Alberta Agriculture, Statistics Canada, Agriculture Canada and private industry have been valuable as sources for the estimation of Farm Cash Receipts and Expenses.

Total production value includes all crops grown on farms in the current year for sale, feed, seed and home consumption at the prevailing market prices during the crop year. The method of disposal of these crops for various uses in the current or subsequent years may have very little effect on the total value. Production value for each crop represents value to the producer.

Prices used to calculate value of production are those which farmers receive at the shipping point less freight, handling and other marketing charges. Transportation costs incurred by farmers themselves in delivering grain to elevators are included with farm expenses. The estimated final prices are subject to revision after all relevant sales and payments are made.

The Alberta Input Monitoring System (AIMS), under the auspices of Alberta Agriculture, has been used as a source of input data. Further information regarding AIMS or any of the other data is available through the Statistics Branch of Alberta Agriculture.

CROPS

Major crop areas are estimated by Statistics Canada in cooperation with Alberta Agriculture. Estimates are for seeded acres in most cases, and yields are reported on the land devoted to the crop at seeding time except for oats and barley which are based on harvested area. Statistics Canada, Agriculture/Natural Resources Division develops yield estimates of major crops through surveys. The November estimates (Statistics Canada 22-002) contain the latest area and yield estimates.

Minor crop areas, except sugar beets, are estimated through the Alberta Agriculture Specialty Crop Survey. These values are on a field run basis and have not been adjusted for dockage. Sugar beet data are obtained from the Alberta Sugar Beet Growers Marketing Board and Alberta Agriculture.

Forage Seed data are from the Plant Production Division, Agriculture Canada and Processed Alfalfa estimates are from a market survey conducted by Alberta Agriculture, Market Analysis Branch.

Hail and Crop Insurance data are obtained from Alberta Hail and Crop Insurance Corporation. Wheat Board Payments are reported by the Canadian Wheat Board. Lakehead selling prices are recorded by Statistics Canada. Non-Board prices for the major centres in the province are those developed through the Alberta Feed and Forage exchange.

Data for the Supply and Disposition and Farm Stocks of Alberta grains are supplied by Statistics Canada.

Fertilizer sales volumes are provided by the Canadian Fertilizer Institute Association and the Soils Branch of Alberta Agriculture.

Precipitation information is provided by Environment Canada.

Irrigation data are provided by the Irrigation Branch of Alberta Agriculture.

Seed cleaning information is provided by the Association of Alberta Co-Op Seed Cleaning Plants Ltd.

LIVESTOCK

Market and other data for cattle, hogs and sheep are obtained from the Agriculture Canada publication "Canadian Livestock and Meat Trade Report" and Statistics Canada. Prices pertain to stockyard sales and direct to packer sales.

The National Tripartite Stabilization Program data are compiled by the Statistics Branch from data generated by the Central Program Support Branch of Alberta Agriculture.

Data on brand inspection, horse regulation and dairy are obtained from Animal Industry Division, Alberta Agriculture.

Monthly poultry prices are from the Poultry Market Report by Agriculture Canada. Production values are obtained from Statistics Canada, publication 23-202. Data on hatchery capacity, chick production and poultry eviscerated in registered stations are supplied by the Poultry Branch, Alberta Agriculture. Chick disposition and poult production information are obtained from the Agriculture Canada Publication "Poultry Market Review".

APICULTURE

Alberta Agriculture, in cooperation with Statistics Canada, produces these apiculture estimates.

FUR FARMING

Fur farm information is obtained from the Animal Health Division.

FOODS

Food and Beverage Industry Statistics are obtained from Statistics Canada Publications 32-203 and 31-001. The Consumer Price Index (CPI) is used in constant dollar calculations.

The retail food price indices are developed from data collected and assembled by Alberta Agriculture. Further information is available through Statistics Branch, Alberta Agriculture.

EXPORTS

Out-of-province shipments, as used in this yearbook, includes shipments to other provinces as well as out-of-country exports. The primary sources of data for out-of country exports are Statistics Canada Catalogues 65-003 (Exports by Countries) and 65-004 (Exports by Commodities) supplemented with provincial level information from the Alberta Bureau of Statistics and other Statistics Canada publications. In addition, the information necessary to adjust Statistics Canada data to estimated Alberta exports are gathered from many sources within Alberta Agriculture, other government departments and industry.

FARM STRUCTURE

The information is derived from Statistics Canada publication "Census of Agriculture", 1971 and 1986.